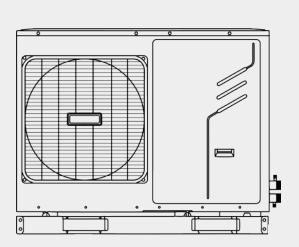
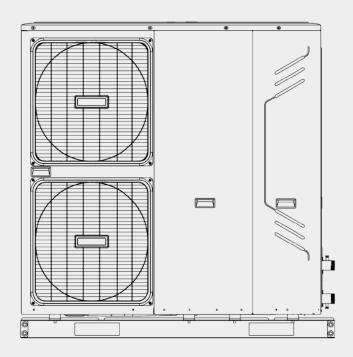
## **MONO HEAT PUMPS**

## TECHNICAL DATA MANUAL





Product fiche 1

| Heat pump space heater                                | ater                                                                           | nnit    | MHP5RP24MI     | MHP7RP24MI     | MHP9RP24MI | MHP12RP24MI  | MHP14RP24MI    | MHP16RP24MI | MHP12RP24P3MI  | MHP12RP24P3MI MHP14RP24P3MI | MHP16RP24P3MI |
|-------------------------------------------------------|--------------------------------------------------------------------------------|---------|----------------|----------------|------------|--------------|----------------|-------------|----------------|-----------------------------|---------------|
| Indoor unit sound power (*)                           | wer (*)                                                                        | [dB(A)] | /              | /              | 1          | ,            | /              | /           | /              | /                           | /             |
| Outdoor unit sound power (*)                          | ower (*)                                                                       | [dB(A)] | 61             | 49             | 29         | 89           | 7.1            | 7.1         | 89             | 71                          | 71            |
| Capacity of the back-up heater integrated in the unit | Psup back-up heater                                                            | [kw]    | 0              | 0              | 0          | 0            | 0              | 0           | 0              | 0                           | 0             |
| off peak operation function integrated in Heat pump   | nction integrated in                                                           | N/      | o <sub>N</sub> | N <sub>O</sub> | No         | <sub>S</sub> | N <sub>o</sub> | oN          | N <sub>O</sub> | No                          | No            |
| ing                                                   | Energy efficiency class 35°C (Low temp. app.)                                  | 1       | A+++           | A+++           | A+++       | A++          | A++            | ++<br>++    | A++            | A++                         | A++           |
| Space heating                                         | Energy efficiency class 55°C(Medium temp. app.)                                | 1       | A++            | A++            | A++        | A++          | A++            | A++         | A++            | A++                         | A++           |
| Average climate (Des                                  | Average climate (Design temperature= -10°C)                                    | (0,     |                |                |            |              |                |             |                |                             |               |
|                                                       | Prated(declared heating capacity) @-10°C                                       | [kw]    | 7              | 7              | 8          | 12           | 41             | 16          | 12             | 14                          | 16            |
| Space heating 35°C                                    | Seasonal space<br>heating efficiency(ns)                                       | [%]     | 176            | 176            | 177        | 169          | 168            | 169         | 169            | 168                         | 169           |
| , , ,                                                 | Annual energy consumption                                                      | [kWh]   | 3,071          | 3,071          | 3,844      | 5,726        | 6,819          | 7,687       | 5,726          | 6,819                       | 7,687         |
|                                                       | Prated(declared heating capacity) @-10°C                                       | [kW]    | 7              | 7              | 7          | 13           | 14             | 15          | 13             | 14                          | 15            |
| Space heating 55°C                                    | Seasonal space<br>heating efficiency(ns)                                       | [%]     | 127            | 127            | 126        | 126          | 128            | 128         | 126            | 128                         | 128           |
| , 5                                                   | Annual energy consumption                                                      | [kWh]   | 4,203          | 4,203          | 4,770      | 8,164        | 8,724          | 9,216       | 8,164          | 8,724                       | 9,216         |
| Part load conditions s                                | Part load conditions space heating average climate low temperature application | climate | low temperatu  | re application |            |              |                |             |                |                             |               |
|                                                       | Pdh(declared<br>heating capacity)                                              | [kw]    | 5.88           | 5.88           | 7.42       | 10.52        | 12.47          | 14.15       | 10.52          | 12.47                       | 14.15         |
| (A) condition (-7°C)                                  | COPd<br>(declared COP)                                                         | 1       | 2.91           | 2.91           | 2.80       | 2.88         | 2.84           | 2.72        | 2.88           | 2.84                        | 2.72          |
|                                                       | Cdh(degradation<br>coefficient)                                                | -       | 06:0           | 06:0           | 0.90       | 06:0         | 06.0           | 06:0        | 06:0           | 06:0                        | 06:0          |
|                                                       | Pdh(declared<br>heating capacity)                                              | [kW]    | 3.64           | 3.64           | 4.83       | 6.50         | 7.48           | 8.92        | 6.50           | 7.48                        | 8.92          |
| (B) condition (2°C)                                   | COPd<br>(declared COP)                                                         | 1       | 4.38           | 4.38           | 4.33       | 4.15         | 4.19           | 4.17        | 4.15           | 4.19                        | 4.17          |
|                                                       | Cdh(degradation<br>coefficient)                                                | 1       | 06:0           | 06:0           | 06:0       | 06:0         | 06.0           | 06:0        | 06:0           | 06:0                        | 06:0          |
|                                                       | Pdh(declared<br>heating capacity)                                              | [kW]    | 2.42           | 2.42           | 3.20       | 4.12         | 5.04           | 5.64        | 4.12           | 5.04                        | 5.64          |
| (C) condition (7°C)                                   | COPd<br>(declared COP)                                                         | ı       | 5.89           | 5.89           | 6.20       | 5.74         | 5.99           | 5.86        | 5.74           | 5.99                        | 5.86          |
|                                                       | Cdh(degradation<br>coefficient)                                                | -       | 06:0           | 06:0           | 06:0       | 06:0         | 06'0           | 06:0        | 06:0           | 06:0                        | 06:0          |
|                                                       | Pdh(declared<br>heating capacity)                                              | [kW]    | 1.03           | 1.03           | 1.55       | 2.23         | 2.23           | 2.47        | 2.23           | 2.23                        | 2.47          |
| (D) condition (12°C)                                  | COPd<br>(declared COP)                                                         | 1       | 5.89           | 5.89           | 7.61       | 5.40         | 5.30           | 6.28        | 5.40           | 5.30                        | 6.28          |
|                                                       | Cdh(degradation<br>coefficient)                                                | 1       | 0.90           | 0.90           | 0.90       | 06.0         | 06.0           | 06:0        | 06:0           | 06:0                        | 0.90          |
|                                                       |                                                                                |         |                |                |            |              |                |             |                |                             |               |

Product fiche 2

| Heat pump space heater                   | eater                                                                             | unit    | MHP5RP24MI  | MHP7RP24MI      | MHP9RP24MI | MHP12RP24MI | MHP14RP24MI | MHP16RP24MI | MHP12RP24P3MI | MHP12RP24P3MI MHP14RP24P3MI MHP16RP24P3MI | MHP16RP24P3MI |
|------------------------------------------|-----------------------------------------------------------------------------------|---------|-------------|-----------------|------------|-------------|-------------|-------------|---------------|-------------------------------------------|---------------|
|                                          | Tol (temperature operating limit)                                                 | []      | -10         | -10             | -10        | -10         | -10         | -10         | -10           | -10                                       | -10           |
| (E) Tol(temperature                      | Pdh (declared heating capacity)                                                   | [kW]    | 6.62        | 6.62            | 6.64       | 12.01       | 12.72       | 12.93       | 12.01         | 12.72                                     | 12.93         |
| operating limit)                         | COPd (declared COP)                                                               | 1       | 2.63        | 2.63            | 2.54       | 2.60        | 2.51        | 2.41        | 2.60          | 2.51                                      | 2.41          |
|                                          | WTOL (Heating water Operation Limit)                                              | []      | 09          | 09              | 09         | 09          | 09          | 09          | 09            | 09                                        | 09            |
|                                          | Tbiv                                                                              | []      | 2-          | 2-              | <i>L</i> - | <i>L</i> -  | 2-          | 2-          | 2-            | 2-                                        | -7            |
| (F) Tbivalent<br>temperature             | Pdh (declared heating capacity)                                                   | [kW]    | 5.88        | 5.88            | 7.42       | 10.52       | 12.47       | 14.15       | 10.52         | 12.47                                     | 14.15         |
|                                          | COPd (declared COP)                                                               | 1       | 2.91        | 2.91            | 2.80       | 2.88        | 2.84        | 2.72        | 2.88          | 2.84                                      | 2.72          |
| Supplementary capacity at P_design       | Psup (@Tdesignh:-10°C)                                                            | [kW]    | 0.00        | 0.00            | 1.80       | 0.00        | 1.40        | 3.10        | 0.00          | 1.40                                      | 3.10          |
| Part load conditions                     | Part load conditions space heating average climate medium temperature application | climate | medium temp | erature applica | ıtion      |             |             |             |               |                                           |               |
|                                          | Pdh (declared heating capacity)                                                   | [kW]    | 5.83        | 5.83            | 6.58       | 11.29       | 12.18       | 12.90       | 11.29         | 12.18                                     | 12.90         |
| (A) condition (-7°C)                     | COPd (declared COP)                                                               | 1       | 1.97        | 1.97            | 1.87       | 2.05        | 2.05        | 2.04        | 2.05          | 2.05                                      | 2.04          |
|                                          | Cdh(degradation coefficient)                                                      | 1       | 06.0        | 06:0            | 06:0       | 06:0        | 06:0        | 06:0        | 06.0          | 06:0                                      | 06:0          |
|                                          | Pdh (declared heating capacity)                                                   | [kW]    | 3.68        | 3.68            | 4.25       | 7.31        | 7.84        | 8.25        | 7.31          | 7.84                                      | 8.25          |
| (B) condition (2°C)                      | COPd (declared COP)                                                               | 1       | 3.22        | 3.22            | 3.19       | 3.14        | 3.18        | 3.21        | 3.14          | 3.18                                      | 3.21          |
|                                          | Cdh(degradation coefficient)                                                      |         | 06.0        | 06'0            | 06:0       | 06'0        | 06:0        | 06:0        | 06'0          | 06:0                                      | 06:0          |
|                                          | Pdh (declared heating capacity)                                                   | [kW]    | 2.47        | 2.47            | 2.80       | 4.96        | 5.21        | 5.45        | 4.96          | 5.21                                      | 5.45          |
| (C) condition (7°C)                      | COPd (declared COP)                                                               | -       | 4.21        | 4.21            | 4.38       | 4.25        | 4.29        | 4.32        | 4.25          | 4.29                                      | 4.32          |
|                                          | Cdh(degradation coefficient)                                                      | -       | 06.0        | 06:0            | 06:0       | 06'0        | 06:0        | 06'0        | 06'0          | 06:0                                      | 06.0          |
|                                          | Pdh (declared heating capacity)                                                   | [kW]    | 1.26        | 1.26            | 1.27       | 2.37        | 2.57        | 2.57        | 2.37          | 2.57                                      | 2.57          |
| (D) condition (12°C) COPd (declared COP) | COPd (declared COP)                                                               | -       | 4.91        | 16.4            | 5.04       | 4.94        | 5.14        | 5.12        | 4.94          | 5.14                                      | 5.12          |
|                                          | Cdh(degradation coefficient)                                                      | 1       | 06.0        | 06:0            | 06:0       | 06:0        | 06:0        | 06:0        | 06.0          | 06:0                                      | 06:0          |
|                                          | Tol (temperature operating limit)                                                 | []      | -10         | -10             | -10        | -10         | -10         | -10         | -10           | -10                                       | -10           |
| (E) Tol(temperature                      | Pdh (declared heating capacity)                                                   | [kW]    | 5.86        | 98'9            | 5.53       | 11.88       | 11.68       | 11.16       | 11.88         | 11.68                                     | 11.16         |
| operating limit)                         | COPd (declared COP)                                                               | -       | 1.62        | 1.62            | 1.51       | 1.79        | 1.74        | 1.65        | 1.79          | 1.74                                      | 1.65          |
|                                          | WTOL (Heating water Operation Limit)                                              | []      | 09          | 09              | 09         | 09          | 09          | 09          | 09            | 09                                        | 09            |
|                                          | Tbiv                                                                              | [,c]    | 2-          | <i>L</i> -      | <i>L</i> - | <i>L</i> -  | <i>L</i> -  | 2-          | <i>L</i> -    | 2-                                        | <i>L</i> -    |
| (F) Tbivalent temperature                | Pdh (declared heating capacity)                                                   | [kW]    | 5.83        | 2.83            | 6.58       | 11.29       | 12.18       | 12.90       | 11.29         | 12.18                                     | 12.90         |
|                                          | COPd (declared COP)                                                               | 1       | 1.97        | 1.97            | 1.87       | 2.05        | 2.05        | 2.04        | 2.05          | 2.05                                      | 2.04          |
| Supplementary capacity at P_design       | Psup (@Tdesignh:-10°C)                                                            | [kW]    | 0.70        | 0.70            | 1.80       | 06.0        | 2.10        | 3.40        | 06.0          | 2.10                                      | 3.40          |
|                                          |                                                                                   |         |             |                 |            |             |             |             |               |                                           |               |

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| Heat pump space heater                                              | .e.                                     | unit    | MHP5RP24MI    | MHP7RP24MI  | MHP9RP24MI | MHP12RP24MI | MHP14RP24MI | MHP16RP24MI | MHP12RP24P3MI | MHP12RP24P3MI MHP14RP24P3MI MHP16RP24P3MI | MHP16RP24P3MI |
|---------------------------------------------------------------------|-----------------------------------------|---------|---------------|-------------|------------|-------------|-------------|-------------|---------------|-------------------------------------------|---------------|
| Colder climate (Design temperature                                  | :mperature = -22°C)                     |         |               |             |            |             |             |             |               |                                           |               |
|                                                                     |                                         | [kW]    | 5             | 7           | 8          | 13          | 14          | 16          | 13            | 14                                        | 16            |
| Space heating 35°C                                                  | neating                                 | [%]     | 133           | 150         | 149        | 131         | 143         | 143         | 131           | 143                                       | 143           |
|                                                                     | Annual energy consumption               | [kWh]   | 3,486         | 4,217       | 5,303      | 9,294       | 9,427       | 10,487      | 9,294         | 9,427                                     | 10,487        |
|                                                                     | heating<br>C                            | [kW]    | 5             | 7           | 8          | 12          | 14          | 15          | 12            | 14                                        | 15            |
| Space heating 55°C                                                  | Seasonal space heating efficiency (ηs)  | [%]     | 26            | 104         | 109        | 96          | 102         | 106         | 96            | 102                                       | 106           |
|                                                                     | Annual energy consumption               | [kWh]   | 4,661         | 6,136       | 7,286      | 12,299      | 13,449      | 13,768      | 12,299        | 13,449                                    | 13,768        |
| Part load conditions space heating colder climate low temperature a | ace heating colder clin                 | nate Ic | w temperature | application |            |             |             |             |               |                                           |               |
|                                                                     | Pdh (declared heating capacity)         | [kW]    | 3.92          | 5.35        | 5.85       | 10.31       | 11.39       | 11.38       | 10.31         | 11.39                                     | 11.38         |
| condition (-15°C)                                                   | COPd (declared COP)                     | -       | 2.43          | 2.48        | 2.42       | 2.38        | 2.32        | 2.33        | 2.38          | 2.32                                      | 2.33          |
|                                                                     | Cdh(degradation<br>coefficient)         | -       | 06:0          | 06:0        | 06:0       | 06:0        | 06:0        | 06:0        | 06'0          | 06:0                                      | 06:0          |
|                                                                     | Pdh (declared heating capacity)         | [kW]    | 2.86          | 4.19        | 5.31       | 7.74        | 8.71        | 9.98        | 7.74          | 8.71                                      | 9.98          |
| (A) condition (-7°C)                                                | COPd (declared COP)                     | -       | 3.09          | 3.22        | 3.22       | 3.18        | 3.17        | 3.15        | 3.18          | 3.17                                      | 3.15          |
|                                                                     | Cdh(degradation<br>coefficient)         | -       | 06:0          | 06:0        | 06:0       | 06:0        | 06:0        | 06:0        | 06.0          | 06:0                                      | 06:0          |
|                                                                     | Pdh (declared heating capacity)         | [kW]    | 1.74          | 2.59        | 3.35       | 4.32        | 5.48        | 5.83        | 4.32          | 5.48                                      | 5.83          |
| (B) condition (2°C)                                                 | COPd (declared COP)                     | -       | 4.09          | 4.53        | 4.76       | 4.00        | 4.27        | 4.33        | 4.00          | 4.27                                      | 4.33          |
|                                                                     | Cdh(degradation<br>coefficient)         | -       | 06.0          | 06:0        | 06:0       | 06.0        | 06.0        | 06:0        | 06'0          | 06:0                                      | 06:0          |
|                                                                     | Pdh (declared heating capacity)         | [kW]    | 1.12          | 1.79        | 2.09       | 3.00        | 3.50        | 4.13        | 3.00          | 3.50                                      | 4.13          |
| (C) condition (7°C)                                                 | COPd (declared COP)                     | -       | 4.52          | 6.13        | 6.34       | 5.69        | 5.89        | 6.12        | 69'5          | 5.89                                      | 6.12          |
|                                                                     | Cdh(degradation<br>coefficient)         | -       | 06.0          | 06:0        | 06.0       | 06.0        | 06.0        | 06:0        | 06'0          | 06:0                                      | 06:0          |
|                                                                     | Pdh (declared heating capacity)         | [kW]    | 69.0          | 1.03        | 1.03       | 1.81        | 1.84        | 2.57        | 1.81          | 1.84                                      | 2.57          |
| (D) condition (12°C)                                                | COPd (declared COP)                     | -       | 4.04          | 6.00        | 5.75       | 4.56        | 4.52        | 6.50        | 4.56          | 4.52                                      | 6.50          |
|                                                                     | Cdh(degradation<br>coefficient)         | ,       | 06.0          | 06:0        | 06:0       | 06.0        | 06.0        | 06.0        | 06.0          | 06:0                                      | 06:0          |
|                                                                     | Tol (temperature operating limit)       | []      | -20           | -20         | -20        | -22         | -22         | -22         | -22           | -22                                       | -22           |
| (E) Tol(temperature                                                 | Pdh (declared heating capacity)         | [kW]    | 4.78          | 4.93        | 4.91       | 8.54        | 8.77        | 9.06        | 8.54          | 8.77                                      | 90.6          |
| operating limit)                                                    | COPd (declared COP)                     |         | 2.10          | 2.10        | 2.08       | 1.80        | 1.84        | 1.88        | 1.80          | 1.84                                      | 1.88          |
|                                                                     | WTOL (Heating water<br>Operation Limit) | []      | 40            | 40          | 40         | 37          | 37          | 37          | 37            | 37                                        | 37            |
|                                                                     | Tbiv                                    | []      | -15           | -15         | -13        | -15         | -15         | -13         | -15           | -15                                       | -13           |
| (F) Tbivalent temperature                                           | Pdh (declared heating capacity)         | [kW]    | 3.92          | 5.35        | 6.26       | 10.30       | 11.39       | 11.85       | 10.30         | 11.39                                     | 11.85         |
|                                                                     | COPd (declared COP)                     |         | 2.43          | 2.48        | 2.53       | 2.38        | 2.32        | 2.39        | 2.38          | 2.32                                      | 2.39          |
| Supplementary capacity at P_design                                  | Psup (@Tdesignh:-22°C) [kW]             | [kW]    | 1.10          | 3.00        | 4.50       | 4.10        | 5.20        | 6.50        | 4.10          | 5.20                                      | 6.50          |

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| Heat pump space heater                                                           | er                                       | unit   | MHP5RP24MI   | MHP7RP24MI       | MHP9RP24MI | MHP12RP24MI | MHP14RP24MI | MHP16RP24MI | MHP12RP24P3MI | MHP12RP24P3MI MHP14RP24P3MI MHP16RP24P3MI | MHP16RP24P3MI |
|----------------------------------------------------------------------------------|------------------------------------------|--------|--------------|------------------|------------|-------------|-------------|-------------|---------------|-------------------------------------------|---------------|
| Part load conditions space heating colder climate medium temperature application | ace heating colder clir                  | mate n | edium temper | ature applicatic | Ē          |             |             |             |               |                                           |               |
|                                                                                  | Pdh (declared heating capacity)          | [kW]   | 3.86         | 5.42             | 5.49       | 10.09       | 10.82       | 10.74       | 10.09         | 10.82                                     | 10.74         |
| condition (-15°C)                                                                | COPd (declared COP)                      | _      | 1.73         | 1.80             | 1.76       | 1.78        | 1.77        | 1.76        | 1.78          | 1.77                                      | 1.76          |
|                                                                                  | Cdh(degradation<br>coefficient)          | -      | 0.90         | 0.90             | 06.0       | 0.90        | 06.0        | 0.90        | 06:0          | 06.0                                      | 06.0          |
|                                                                                  | Pdh (declared heating capacity)          | [kW]   | 2.97         | 4.15             | 5.41       | 7.34        | 8.86        | 9.64        | 7.34          | 8.86                                      | 9.64          |
| (A) condition (-7°C)                                                             | COPd (declared COP)                      | 1      | 2.18         | 2.38             | 2.43       | 2.27        | 2.35        | 2.38        | 2.27          | 2.35                                      | 2.38          |
|                                                                                  | Cdh(degradation coefficient)             | 1      | 06:0         | 06:0             | 06:0       | 06:0        | 06:0        | 06:0        | 06:0          | 06:0                                      | 06.0          |
|                                                                                  | Pdh (declared heating capacity)          | [kW]   | 1.75         | 2.67             | 3.30       | 4.47        | 5.30        | 5.59        | 4.47          | 5.30                                      | 5.59          |
| (B) condition (2°C)                                                              | COPd (declared COP)                      | 1      | 2.94         | 3.05             | 3.40       | 2.90        | 3.16        | 3.31        | 2.90          | 3.16                                      | 3.31          |
|                                                                                  | Cdh(degradation coefficient)             |        | 0:90         | 06:0             | 06:0       | 06:0        | 06:0        | 06:0        | 06:0          | 06:0                                      | 06.0          |
|                                                                                  | Pdh (declared heating capacity)          | [kW]   | 1.16         | 1.71             | 2.17       | 2.88        | 3.28        | 3.95        | 2.88          | 3.28                                      | 3.95          |
| (C) condition (7°C)                                                              | COPd (declared COP)                      | -      | 3.57         | 4.16             | 4.59       | 3.96        | 4.10        | 4.47        | 3.96          | 4.10                                      | 4.47          |
|                                                                                  | Cdh(degradation coefficient)             | 1      | 06.0         | 06:0             | 06:0       | 06:0        | 06:0        | 06:0        | 06'0          | 06:0                                      | 06.0          |
|                                                                                  | Pdh (declared heating capacity)          | [kW]   | 0.61         | 0.91             | 06:0       | 1.44        | 1.44        | 1.90        | 1.44          | 1.44                                      | 1.90          |
| (D) condition (12°C)                                                             | COPd (declared COP)                      | 1      | 2.93         | 4.28             | 4.28       | 3.22        | 3.20        | 4.05        | 3.22          | 3.20                                      | 4.05          |
|                                                                                  | Cdh(degradation<br>coefficient)          | -      | 0.90         | 06:0             | 06:0       | 06.0        | 06.0        | 06:0        | 06:0          | 06.0                                      | 06:0          |
|                                                                                  | Tol (temperature operating limit)        | [].    | -18          | -18              | -18        | -18         | -18         | -18         | -18           | -18                                       | -18           |
| (E) Tol(temperature                                                              | Pdh (declared heating capacity)          | [kW]   | 4.10         | 4.05             | 4.17       | 7.66        | 7.65        | 6.72        | 99.7          | 7.65                                      | 6.72          |
| operating limit)                                                                 | COPd (declared COP)                      | 1      | 1.28         | 1.25             | 1.29       | 1.27        | 1.26        | 1.10        | 1.27          | 1.26                                      | 1.10          |
|                                                                                  | WTOL (Heating water Operation Limit)     | [°C]   | 44           | 44               | 44         | 44          | 44          | 44          | 44            | 44                                        | 44            |
|                                                                                  | Tbiv                                     | [°C]   | -15          | -15              | -12        | -15         | -14         | -13         | -15           | -14                                       | -13           |
| (F) Tbivalent femoerature                                                        | Pdh (declared heating capacity)          | [kW]   | 3.86         | 5.42             | 6.08       | 10.09       | 11.33       | 11.64       | 10.09         | 11.33                                     | 11.64         |
|                                                                                  | COPd (declared COP)                      | 1      | 1.73         | 1.80             | 1.98       | 1.78        | 1.85        | 1.88        | 1.78          | 1.85                                      | 1.88          |
| Supplementary capacity at P_design                                               | Psup (@Tdesignh:-22°C)                   | [kW]   | 2.70         | 4.60             | 6.30       | 6.80        | 8.70        | 9.60        | 08.9          | 8.70                                      | 9.60          |
| Warmer climate (Design temperature =2°C)                                         | n temperature =2°C)                      |        |              |                  |            |             |             |             |               |                                           |               |
|                                                                                  | Prated (declared heating capacity) @ 2°C | [kW]   | 5            | 7                | 8          | 12          | 14          | 16          | 12            | 14                                        | 16            |
| Space heating 35°C                                                               | Seasonal space heating efficiency (ηs)   | [%]    | 224          | 218              | 248        | 236         | 240         | 233         | 236           | 240                                       | 233           |
|                                                                                  | Annual energy<br>consumption             | [kWh]  | 1,109        | 1,660            | 1,597      | 2,724       | 3,098       | 3,574       | 2,724         | 3,098                                     | 3,574         |
|                                                                                  | Prated (declared heating capacity) @ 2°C | [kW]   | 5            | 2                | 6          | 12          | 14          | 16          | 12            | 14                                        | 16            |
| Space heating 55°C                                                               | Seasonal space heating efficiency (ηs)   | [%]    | 142          | 154              | 164        | 148         | 154         | 154         | 148           | 154                                       | 154           |
|                                                                                  | Annual energy consumption                | [kWh]  | 1,683        | 2,255            | 2,774      | 4,207       | 4,746       | 2,367       | 4,207         | 4,746                                     | 5,367         |

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| Heat pump space heater                                                        | er                                                          | unit   | MHP5RP24MI     | MHP7RP24MI      | MHP9RP24MI | MHP12RP24MI | MHP14RP24MI | MHP16RP24MI | MHP16RP24MI MHP12RP24P3MI MHP14RP24P3MI MHP16RP24P3MI | MHP14RP24P3MI | MHP16RP24P3MI |
|-------------------------------------------------------------------------------|-------------------------------------------------------------|--------|----------------|-----------------|------------|-------------|-------------|-------------|-------------------------------------------------------|---------------|---------------|
| Part load conditions space heating warmer climate low temperature application | ace heating warmer cl                                       | limate | low temperatur | e application   |            |             |             |             |                                                       |               |               |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 4.80           | 6.76            | 7.58       | 12.03       | 14.13       | 15.25       | 12.03                                                 | 14.13         | 15.25         |
| (B) condition (2°C)                                                           | COPd (declared COP)                                         | -      | 3.78           | 3.75            | 2.90       | 3.60        | 3.39        | 2.94        | 3.60                                                  | 3.39          | 2.94          |
|                                                                               | Cdh(degradation coefficient)                                | -      | 06'0           | 06:0            | 06:0       | 06:0        | 06:0        | 06.0        | 06:0                                                  | 06:0          | 0.90          |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 3.03           | 4.42            | 4.82       | 7.84        | 6.03        | 10.13       | 7.84                                                  | 9.03          | 10.13         |
| (C) condition (7°C)                                                           | COPd (declared COP)                                         | -      | 67.5           | 5.53            | 5.46       | 5.45        | 5.38        | 5.32        | 5.45                                                  | 5.38          | 5.32          |
|                                                                               | Cdh(degradation coefficient)                                | ı      | 06.0           | 06:0            | 06:0       | 06:0        | 06:0        | 06:0        | 06.0                                                  | 06.0          | 06:0          |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 1.45           | 1.89            | 2.44       | 3.49        | 4.30        | 4.91        | 3.49                                                  | 4.30          | 4.91          |
| (D) condition (12°C)                                                          | COPd (declared COP)                                         | -      | 6.47           | 7.53            | 8.24       | 7.14        | 7.45        | 7.48        | 7.14                                                  | 7.45          | 7.48          |
|                                                                               | Cdh(degradation coefficient)                                | -      | 06:0           | 06.0            | 06:0       | 06:0        | 06:0        | 06.0        | 06:0                                                  | 06:0          | 0.90          |
|                                                                               | Tol (temperature operating limit)                           | []     | 2              | 2               | 2          | 2           | 2           | 2           | 2                                                     | 2             | 2             |
| (E) Tol(temperature operating limit)                                          | Pdh (declared heating capacity)                             | [kW]   | 4.80           | 9.76            | 7.58       | 12.03       | 14.13       | 15.25       | 12.03                                                 | 14.13         | 15.25         |
|                                                                               | COPd (declared COP)                                         | -      | 3.78           | 3.75            | 2.90       | 3.60        | 3.39        | 2.94        | 3.60                                                  | 3.39          | 2.94          |
|                                                                               | WTOL (Heating water Operation Limit)                        | [°C]   | 09             | 09              | 09         | 09          | 09          | 09          | 09                                                    | 09            | 09            |
| (F) Thivelent                                                                 | Tbiv                                                        | []     | 2              | 2               | 2          | 7           | 2           | 2           | 2                                                     | 7             | 7             |
| temperature                                                                   | Pdh (declared heating capacity)                             | [kW]   | 3.03           | 4.42            | 4.82       | 7.84        | 9.03        | 10.13       | 7.84                                                  | 9.03          | 10.13         |
|                                                                               | COPd (declared COP)                                         | -      | 67.5           | 5.53            | 5.46       | 5.45        | 5.38        | 5.32        | 5.45                                                  | 5.38          | 5.32          |
| Supplementary capacity at P_design                                            | Psup (@Tdesignh:2°C)                                        | [kW]   | 0.00           | 0.10            | 0.00       | 0.20        | 0.00        | 0.50        | 0.20                                                  | 0.00          | 0.50          |
| Part load conditions sp                                                       | space heating warmer climate medium temperature application | limate | medium tempe   | rature applicat | ion        |             |             |             |                                                       |               |               |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 4.70           | 6.63            | 8.57       | 11.88       | 13.80       | 14.12       | 11.88                                                 | 13.80         | 14.12         |
| (B) condition (2°C)                                                           | COPd (declared COP)                                         | -      | 2.27           | 2.18            | 2.15       | 2.18        | 2.17        | 2.14        | 2.18                                                  | 2.17          | 2.14          |
|                                                                               | Cdh(degradation<br>coefficient)                             | -      | 06.0           | 0.90            | 06:0       | 06:0        | 06.0        | 0.90        | 06:0                                                  | 06:0          | 0.90          |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 2.94           | 4.26            | 5.55       | 7.61        | 8.95        | 10.10       | 7.61                                                  | 8.95          | 10.10         |
| (C) condition (7°C)                                                           | COPd (declared COP)                                         | -      | 3.10           | 3.34            | 3.43       | 3.08        | 3.18        | 3.22        | 3.08                                                  | 3.18          | 3.22          |
|                                                                               | Cdh(degradation<br>coefficient)                             | -      | 06.0           | 0.90            | 06:0       | 06:0        | 06.0        | 0.90        | 06:0                                                  | 06:0          | 0.90          |
|                                                                               | Pdh (declared heating capacity)                             | [kW]   | 1.48           | 1.94            | 2.59       | 3.52        | 4.15        | 4.77        | 3.52                                                  | 4.15          | 4.77          |
| (D) condition (12°C)                                                          | COPd (declared COP)                                         | -      | 4.56           | 4.99            | 5.57       | 4.94        | 5.26        | 5.46        | 4.94                                                  | 5.26          | 5.46          |
|                                                                               | Cdh(degradation coefficient)                                | -      | 06.0           | 0.90            | 06:0       | 06.0        | 06.0        | 0.90        | 06:0                                                  | 06:0          | 0.90          |
|                                                                               | Tol (temperature operating limit)                           | []     | 2              | 2               | 2          | 2           | 2           | 2           | 2                                                     | 2             | 2             |
| (E) Tol(temperature operating limit)                                          | Pdh (declared heating capacity)                             | [kW]   | 4.70           | 6.63            | 8.57       | 11.88       | 13.80       | 14.12       | 11.88                                                 | 13.80         | 14.12         |
|                                                                               | COPd (declared COP)                                         | -      | 2.27           | 2.18            | 2.15       | 2.18        | 2.17        | 2.14        | 2.18                                                  | 2.17          | 2.14          |
|                                                                               | WTOL (Heating water<br>Operation Limit)                     | [°C]   | 09             | 09              | 09         | 09          | 09          | 09          | 09                                                    | 09            | 09            |

Product fiche 6

| Heat pump space heater                                         | ater                                    | unit                | MHP5RP24MI | MHP7RP24MI     | MHP9RP24MI | MHP12RP24MI | MHP14RP24MI    | MHP16RP24MI | MHP12RP24P3MI   | MHP12RP24P3MI MHP14RP24P3MI | MHP16RP24P3MI |
|----------------------------------------------------------------|-----------------------------------------|---------------------|------------|----------------|------------|-------------|----------------|-------------|-----------------|-----------------------------|---------------|
| (F) Thivalent                                                  |                                         | []                  | 7          | 7              | 7          | 7           | 7              | 7           | 7               | 7                           | 7             |
| temperature                                                    | Pdh (declared heating capacity)         | [kW]                | 2.94       | 4.26           | 5.55       | 7.61        | 8.95           | 10.10       | 7.61            | 8.95                        | 10.10         |
|                                                                | COPd (declared COP)                     |                     | 3.10       | 3.34           | 3.43       | 3.08        | 3.18           | 3.22        | 3.08            | 3.18                        | 3.22          |
| Supplementary capacity at P_design                             | Psup (@Tdesignh:2°C)                    | [kW]                | 0.00       | 0.00           | 00.00      | 0.00        | 0.10           | 1.60        | 00'0            | 0.10                        | 1.60          |
| Ecodesign technical data                                       | data                                    |                     |            |                |            |             |                |             |                 |                             |               |
|                                                                | Air-to-water heat pump                  | N/A                 | Yes        | Yes            | Yes        | Yes         | Yes            | SəY         | sə <sub>A</sub> | Yes                         | Yes           |
|                                                                | Water-to-water heat pump                | N/Y                 | No         | No             | No         | No          | o <sub>N</sub> | oN          | No              | No                          | No            |
| Droduot dooringtion                                            | Brine-to-water heat pump                | N/Y                 | No         | No             | No         | No          | oN             | oN          | oN              | No                          | No            |
| Lioquet describation                                           | heat                                    | N/Y                 | No         | N <sub>O</sub> | No         | No          | o<br>N         | No          | No              | No                          | No            |
|                                                                | Equipped with a supplementary heater    | N/A                 | No         | No             | No         | Yes         | Yes            | sə,         | səA             | Yes                         | Yes           |
|                                                                | Heat pump combination heater            | Y/N                 | No         | No             | No         | No          | No             | oN          | oN              | No                          | No            |
| Air to water unit                                              | Rated airflow (outdoor)                 | [m <sup>3</sup> /h] | 3050       | 3050           | 3050       | 6150        | 6150           | 6150        | 6150            | 6150                        | 6150          |
| Brine/water to water unit Rated water/brine flow (outdoor H/E) |                                         | [m <sup>3</sup> /h] | /          | /              | /          | /           | /              | /           | /               | /                           | /             |
|                                                                | Capacity control                        |                     | Inverter   | Inverter       | Inverter   | Inverter    | Inverter       | Inverter    | Inverter        | Inverter                    | Inverter      |
|                                                                | Poff (Power consumption Off mode)       | [kW]                | 600.0      | 600.0          | 600.0      | 0.009       | 0.009          | 600'0       | 600'0           | 0.009                       | 0.009         |
|                                                                |                                         | [kW]                | 600.0      | 900:0          | 0.010      | 0.015       | 0.026          | 0.041       | 0.015           | 0.026                       | 0.041         |
| Other                                                          | Psb (Power consumption<br>Standby mode) | [kW]                | 600.0      | 0.009          | 0.009      | 0.009       | 0.009          | 600.0       | 0.009           | 0.009                       | 0.009         |
|                                                                | PCK (Power crankcase heater model)      | [kW]                | 0.000      | 0.000          | 0.000      | 0.000       | 0.000          | 0.000       | 0.000           | 0.000                       | 0.000         |
|                                                                | Qelec (Daily electricity consumption)   | [kWh]               | /          | /              | /          | /           | 1              | 1           | 1               | /                           | /             |
|                                                                | Qfuel (Daily fuel consumption)          | [kWh]               | /          | /              | /          | /           | /              | /           | /               | 1                           | /             |

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          | recn                  | nicai | parameters                                                                                                                    |                   |            |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|-------------------|
| Model(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                       |       | MHP5RP24MI                                                                                                                    |                   |            |                   |
| Air-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                       |       | YES                                                                                                                           |                   |            |                   |
| Water-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                       |       | NO                                                                                                                            |                   |            |                   |
| Brine-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                       |       | NO                                                                                                                            |                   |            |                   |
| Low-temperature heat pump:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                       |       | NO                                                                                                                            |                   |            |                   |
| Equipped with a supplementary heate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | r:                       |                       |       | NO                                                                                                                            |                   |            |                   |
| Heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                       |       | NO                                                                                                                            |                   |            |                   |
| Declared climate condition:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                       |       | AVERAGE                                                                                                                       |                   |            |                   |
| Parameters are declared for medium-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | temperature              | application           |       |                                                                                                                               |                   |            |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                       |       |                                                                                                                               | 0                 | .,,        | T                 |
| Item Control of the C | Symbol                   | Value                 | Unit  | Item                                                                                                                          | Symbol            | Value      | Unit              |
| Rated heat output (*)  Declared capacity for heating for part load a and outdoor temperature Ti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Prated<br>at indoor temp | 6.6<br>perature 20 °C | kW    | Seasonal space heating energy efficiency  Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te |                   |            | ad at             |
| Tj = -7℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pdh                      | 5.8                   | kW    | Tj = -7 °C                                                                                                                    | COPd              | 1.97       | _                 |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pdh                      | 3.7                   | kW    | Tj = 2°C                                                                                                                      | COPd              | 3.22       | -                 |
| Tj = 7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pdh                      | 2.5                   | kW    | Tj = 7°C                                                                                                                      | COPd              | 4.21       | -                 |
| Tj = 12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pdh                      | 1.3                   | kW    | Tj = 12°C                                                                                                                     | COPd              | 4.91       | -                 |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pdh                      | 5.8                   | kW    | Tj = bivalent temperature                                                                                                     | COPd              | 1.97       | -                 |
| Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                      | 5.9                   | kW    | Tj = operating limit                                                                                                          | COPd              | 1.62       | -                 |
| For air-to-water heat pumps: Tj = -15 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pdh                      | -                     | kW    | For air-to-water heat pumps: Tj = -15°C                                                                                       | COPd              | -          | -                 |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tbiv                     | -7                    | °C    | For air-to-water heat pumps:<br>Operation limit temperature                                                                   | TOL               | -10        | °C                |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pcych                    | -                     | kW    | Cycling interval efficiency                                                                                                   | COPcyc            | -          | -                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cdh                      | 0.9                   |       | Heating water operating limit temperature                                                                                     | WTOL              | 60         | °C                |
| Power consumption in modes other than ac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | tive mode                |                       |       | Supplementary heater                                                                                                          |                   |            |                   |
| Off mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Poff                     | 0.009                 | kW    | Rated heat output (**)                                                                                                        | Psup              | 0.7        | 1.34/             |
| Standby mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Psb                      | 0.009                 | kW    | Nated Heat Output ( )                                                                                                         | r sup             | 0.7        | kW                |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pto                      | 0.006                 | kW    | Type of energy input                                                                                                          |                   | Electrical |                   |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pck                      | 0.000                 | kW    |                                                                                                                               |                   |            |                   |
| Other items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                       |       |                                                                                                                               |                   |            |                   |
| Capacity control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          | variable              |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                 | -                 | 3050       | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L <sub>WA</sub>          | -/61                  | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                            | -                 | -          | m <sup>3</sup> /h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Q <sub>HE</sub>          | 4203                  | kWh   | heat exchanger                                                                                                                |                   |            |                   |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                       |       |                                                                                                                               |                   |            |                   |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          | -                     |       | Water heating energy efficiency                                                                                               | η <sub>wh</sub>   | -          | %                 |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Q <sub>clec</sub>        | -                     | kWh   | Daily fuel consumption                                                                                                        | Q <sub>fuel</sub> | -          | kWl               |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AEC                      | -                     | kWh   | Annual fuel consumption                                                                                                       | AFC               | -          | GJ                |
| Contact details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                       |       | eri,1/3 San Vito di Leguzzano (VI) Italia                                                                                     | _                 |            |                   |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                   |                   |                |      | MHP5RP24MI                                                                         |                   |       |                   |
|---------------------------------------------|-------------------|----------------|------|------------------------------------------------------------------------------------|-------------------|-------|-------------------|
| Air-to-water heat pump:                     |                   |                |      | YES                                                                                |                   |       |                   |
| Water-to-water heat pump:                   |                   |                |      | NO                                                                                 |                   |       |                   |
| Brine-to-water heat pump:                   |                   |                |      | NO                                                                                 |                   |       |                   |
| Low-temperature heat pump:                  |                   |                |      | NO                                                                                 |                   |       |                   |
| Equipped with a supplementary heate         | er:               |                |      | NO                                                                                 |                   |       |                   |
| Heat pump combination heater:               |                   |                |      | NO                                                                                 |                   |       |                   |
| Declared climate condition:                 |                   |                |      | COLDER                                                                             |                   |       |                   |
| Parameters are declared for medium          | -temperature      | application    | ١.   |                                                                                    |                   |       |                   |
| Item                                        | Symbol            | Value          | Unit | Item                                                                               | Symbol            | Value | Uni               |
| Rated heat output (*)                       | Prated            | 4.7            | kW   | Seasonal space heating energy efficiency                                           | ηs                | 97    | %                 |
| Declared capacity for heating for part load |                   |                | _    | Declared coefficient of performance or prim                                        |                   |       |                   |
| and outdoor temperature Tj                  | at indoor terri   | perature 20 °C |      | indoor temperature 20 °C and outdoor tel                                           |                   |       |                   |
| Tj = -7℃                                    | Pdh               | 3.0            | kW   | Tj = -7℃                                                                           | COPd              | 2.18  | -                 |
| Tj = 2 °C                                   | Pdh               | 1.8            | kW   | Tj = 2℃                                                                            | COPd              | 2.94  | -                 |
| Tj = 7 °C                                   | Pdh               | 1.2            | kW   | Tj = 7℃                                                                            | COPd              | 3.57  | -                 |
| Tj = 12 <sup>°</sup> C                      | Pdh               | 0.6            | kW   | Tj = 12℃                                                                           | COPd              | 2.93  | -                 |
| Tj = bivalent temperature                   | Pdh               | 3.9            | kW   | Tj = bivalent temperature                                                          | COPd              | 1.73  | -                 |
| Tj = operating limit                        | Pdh               | 4.1            | kW   | Tj = operating limit                                                               | COPd              | 1.28  | -                 |
| For air-to-water heat pumps: Tj = -15 C     | Pdh               | 3.9            | kW   | For air-to-water heat pumps: Tj = -15 °C                                           | COPd              | 1.73  | -                 |
| Bivalent temperature                        | Tbiv              | -15            | °C   | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | -18   | °C                |
| Cycling interval capacity for heating       | Pcych             | -              | kW   | Cycling interval efficiency                                                        | COPcyc            | -     | -                 |
| Degradation co-efficient (**)               | Cdh               | 0.9            |      | Heating water operating limit temperature                                          | WTOL              | 44    | °C                |
| Power consumption in modes other than a     | ctive mode        |                |      | Supplementary heater                                                               |                   |       |                   |
| Off mode                                    | Poff              | 0.009          | kW   | Dated heat output (**)                                                             |                   | 0.7   |                   |
| Standby mode                                | Psb               | 0.009          | kW   | Rated heat output (**)                                                             | Psup              | 2.7   | kW                |
| Thermostat-off mode                         | Pto               | 0.009          | kW   | Type of energy input                                                               |                   |       |                   |
| Crankcase heater mode                       | Pck               | 0.000          | kW   | Type of energy input                                                               |                   |       |                   |
| Other items                                 |                   |                |      |                                                                                    |                   |       |                   |
| Capacity control                            |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 3050  | m <sup>3</sup> /r |
| Sound power level, indoors/outdoors         | L <sub>WA</sub>   | -/61           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -     | m <sup>3</sup> /h |
| Annual energy consumption                   | Q <sub>HE</sub>   | 4661           | kWh  | heat exchanger                                                                     |                   |       |                   |
| For heat pump combination heater:           |                   |                |      |                                                                                    |                   |       |                   |
| Declared load profile                       |                   | -              |      | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -     | %                 |
| Daily electricity consumption               | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -     | kW                |
| Annual electricity consumption              | AEC               | -              | kWh  | Annual fuel consumption                                                            | AFC               | -     | G.                |
| Contact details                             |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia iairconditioner.com                      |                   |       |                   |

| Model(s):                                                              |                   |                |      | MHP5RP24MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |       |                |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|----------------|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |       |                |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                | NO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Brine-to-water heat pump:                                              |                   | NO             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                | NO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Equipped with a supplementary heate                                    | er:               |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Declared climate condition:                                            |                   |                |      | WARMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |       |                |  |  |  |  |
| Parameters are declared for medium-                                    | temperature       | application    | 1.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
|                                                                        |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbol            | Value | Uı             |  |  |  |  |
| Rated heat output (*)                                                  | Prated            | 4.6            | kW   | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηs                | 142   | %              |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | oerature 20 °C |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 ° |                   |       | ad at          |  |  |  |  |
| Tj = -7℃                                                               | Pdh               | -              | kW   | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | -     |                |  |  |  |  |
| Tj = 2℃                                                                | Pdh               | 4.7            | kW   | Tj = 2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 2.27  | _              |  |  |  |  |
| Tj = 7℃                                                                | Pdh               | 2.9            | kW   | Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.10  |                |  |  |  |  |
| Tj = 12℃                                                               | Pdh               | 1.5            | kW   | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.56  |                |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 2.9            | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.10  |                |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 4.7            | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 2.27  |                |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 C                                | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | -     |                |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | 7              | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TOL               | 2     | ۰              |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -     |                |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 60    | -              |  |  |  |  |
| Power consumption in modes other than ac                               | ctive mode        |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   | Detect he at autout (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _                 |       | Ι.             |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 0.0   | k              |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.009          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | -     |                |  |  |  |  |
| Other items                                                            |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 3050  | m <sup>3</sup> |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/61           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -     | m <sup>3</sup> |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 1683           | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |       |                |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -     |                |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -     | k'             |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -     | (              |  |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |       |                |  |  |  |  |

| Model(s):                                                              |                   |                |      | MHP7RP24MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |            |                |  |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|----------------|--|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |            |                |  |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                |      | NO NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |            |                |  |  |  |  |  |
| Brine-to-water heat pump:                                              |                   |                | NO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                |  |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |            |                |  |  |  |  |  |
| Equipped with a supplementary heate                                    | er:               |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |            |                |  |  |  |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |            |                |  |  |  |  |  |
| Declared climate condition:                                            |                   |                |      | AVERAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |            |                |  |  |  |  |  |
| Parameters are declared for medium-                                    | temperature       | application    | 1.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                |  |  |  |  |  |
|                                                                        | •                 | •••            |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                |  |  |  |  |  |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbol            | Value      | Ur             |  |  |  |  |  |
| Rated heat output (*)                                                  | Prated            | 6.6            | kW   | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηs                | 127        | %              |  |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °( |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 ° |                   |            | ad at          |  |  |  |  |  |
| Tj = -7℃                                                               | Pdh               | 5.8            | kW   | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 1.97       | -              |  |  |  |  |  |
| Tj = 2 °C                                                              | Pdh               | 3.7            | kW   | Tj = 2 ℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 3.22       | -              |  |  |  |  |  |
| Tj = 7 °C                                                              | Pdh               | 2.5            | kW   | Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 4.21       | -              |  |  |  |  |  |
| Tj = 12˚C                                                              | Pdh               | 1.3            | kW   | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.91       | -              |  |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 5.8            | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 1.97       | -              |  |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 5.9            | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 1.62       |                |  |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | -          | -              |  |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | -7             | °C   | For air-to-water heat pumps: Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOL               | -10        | °(             |  |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -          | -              |  |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 60         | °(             |  |  |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |            |                |  |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _                 |            |                |  |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 0.7        | k۱             |  |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.006          | kW   | Time of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | Flastriant | _              |  |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | Electrical |                |  |  |  |  |  |
| Other items                                                            |                   |                | _    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                |  |  |  |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 3050       | m <sup>3</sup> |  |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/64           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -          | m <sup>3</sup> |  |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 4203           | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |            |                |  |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                |  |  |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -          | 9              |  |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -          | k۱             |  |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -          | G              |  |  |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |            |                |  |  |  |  |  |

| Model(s):                                                              |                   |                |      | MHP7RP24MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |       |                |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|----------------|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |       |                |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                | NO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Brine-to-water heat pump:                                              |                   | NO             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Equipped with a supplementary heate                                    | er:               |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Declared climate condition:                                            |                   |                |      | COLDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |       |                |  |  |  |  |
| Parameters are declared for medium-                                    | temperature       | application    | ١.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| и                                                                      | O mark at         | Value          | Unit | Hom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Symbol            | Value |                |  |  |  |  |
| Retad best sutput (*)                                                  | Symbol            | Value<br>6.6   | kW   | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                 |       | 9              |  |  |  |  |
| Rated heat output (*)                                                  | Prated            |                |      | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηѕ                | 104   |                |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °C |      | Declared coefficient of performance or primi indoor temperature 20 °C and outdoor temperature 20 |                   |       | ad at          |  |  |  |  |
| Tj = -7 °C                                                             | Pdh               | 4.2            | kW   | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 2.38  |                |  |  |  |  |
| Tj = 2℃                                                                | Pdh               | 2.7            | kW   | Tj = 2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 3.05  |                |  |  |  |  |
| Tj = 7℃                                                                | Pdh               | 1.7            | kW   | Tj = 7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.16  |                |  |  |  |  |
| Tj = 12℃                                                               | Pdh               | 0.9            | kW   | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.28  |                |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 5.4            | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 1.80  |                |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 4.1            | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 1.25  |                |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | 5.4            | kW   | For air-to-water heat pumps: Tj = -15 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 1.80  |                |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | -15            | °C   | For air-to-water heat pumps: Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOL               | -18   | c              |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -     |                |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 44    | ,              |  |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                 |       | Г              |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 4.6   | k              |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.006          | kW   | Time of anarov input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Other items                                                            |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 3050  | m <sup>3</sup> |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/64           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -     | m              |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 6136           | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |       |                |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -     | П              |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -     | k              |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -     | ,              |  |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |       |                |  |  |  |  |

| Model(s):                                                              |                   |                |      | MHP7RP24MI                                                                            |                      |       |                   |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|---------------------------------------------------------------------------------------|----------------------|-------|-------------------|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                   |                      |       |                   |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                |      | NO                                                                                    |                      |       |                   |  |  |  |  |
| Brine-to-water heat pump:                                              |                   |                | NO   |                                                                                       |                      |       |                   |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                    |                      |       |                   |  |  |  |  |
| Equipped with a supplementary heat                                     | er:               |                |      | NO                                                                                    |                      |       |                   |  |  |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                    |                      |       |                   |  |  |  |  |
| Declared climate condition:                                            |                   |                |      | WARMER                                                                                |                      |       |                   |  |  |  |  |
| Parameters are declared for medium                                     | -temperature      | application    |      |                                                                                       |                      |       |                   |  |  |  |  |
| the con-                                                               | Currelhad         | Value          | Unit | Item                                                                                  | Symbol               | Value | Llei              |  |  |  |  |
| Retad heat output (*)                                                  | Symbol            | 6.6            |      |                                                                                       |                      |       | Unit              |  |  |  |  |
| Rated heat output (*)                                                  | Prated            |                | kW   | Seasonal space heating energy efficiency                                              | ηѕ                   | 154   |                   |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor tem     | perature 20 °C | ,    | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tell |                      |       | ad at             |  |  |  |  |
| Tj = -7℃                                                               | Pdh               | -              | kW   | Tj = -7 ℃                                                                             | COPd                 | -     | -                 |  |  |  |  |
| Tj = 2 °C                                                              | Pdh               | 6.6            | kW   | Tj = 2℃                                                                               | COPd                 | 2.18  | -                 |  |  |  |  |
| Tj = 7°C                                                               | Pdh               | 4.3            | kW   | Tj = 7 ℃                                                                              | COPd                 | 3.34  | -                 |  |  |  |  |
| Tj = 12℃                                                               | Pdh               | 1.9            | kW   | Tj = 12℃                                                                              | COPd                 | 4.99  | -                 |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 4.3            | kW   | Tj = bivalent temperature                                                             | COPd                 | 3.34  | -                 |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 6.6            | kW   | Tj = operating limit                                                                  | COPd                 | 2.18  | -                 |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15°C                                               | COPd                 | -     | -                 |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | 7              | °C   | For air-to-water heat pumps:<br>Operation limit temperature                           | TOL                  | 2     | °C                |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                           | COPcyc               | -     | -                 |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                             | WTOL                 | 60    | °C                |  |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                  |                      |       |                   |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   | Dated heat output (**)                                                                |                      |       |                   |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                | Psup                 | 0.0   | kW                |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.006          | kW   | Type of energy input                                                                  |                      |       |                   |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   |                                                                                       |                      |       |                   |  |  |  |  |
| Other items                                                            |                   |                |      |                                                                                       |                      |       |                   |  |  |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                         | -                    | 3050  | m³/h              |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/64           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor    | -                    | -     | m <sup>3</sup> /h |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 2255           | kWh  | heat exchanger                                                                        |                      |       |                   |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                       |                      |       |                   |  |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                       | $\eta_{\mathrm{wh}}$ | -     | %                 |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                | Q <sub>fuel</sub>    | -     | kW                |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                               | AFC                  | -     | GJ                |  |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia iairconditioner.com                         |                      |       |                   |  |  |  |  |

| Model(s):                                   |                   |             |      | MHP9RP24MI                                                                          |                   |                  |                   |  |  |
|---------------------------------------------|-------------------|-------------|------|-------------------------------------------------------------------------------------|-------------------|------------------|-------------------|--|--|
| Air-to-water heat pump:                     |                   |             |      | YES                                                                                 |                   |                  |                   |  |  |
| Water-to-water heat pump:                   |                   |             |      | NO NO                                                                               |                   |                  |                   |  |  |
| Brine-to-water heat pump:                   |                   |             |      | NO                                                                                  |                   |                  |                   |  |  |
| Low-temperature heat pump:                  |                   |             |      | NO                                                                                  |                   |                  |                   |  |  |
| Equipped with a supplementary heat          | er:               |             |      | NO                                                                                  |                   |                  |                   |  |  |
| Heat pump combination heater:               |                   |             |      | NO                                                                                  |                   |                  |                   |  |  |
| Declared climate condition:                 |                   |             |      | AVERAGE                                                                             |                   |                  |                   |  |  |
| Parameters are declared for medium          | -temperature      | application | l.   |                                                                                     |                   |                  |                   |  |  |
| Item                                        | Symbol            | Value       | Unit | Item                                                                                | Symbol            | Value            | Un                |  |  |
| Rated heat output (*)                       | Prated            | 7.4         | kW   | Seasonal space heating energy efficiency                                            | ηs                | 126              | %                 |  |  |
| Declared capacity for heating for part load |                   |             |      | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te | ary energy ra     | itio for part lo |                   |  |  |
| and outdoor temperature Tj                  | Dalle             | 0.0         | 1307 | Tj = -7 $^{\circ}$ C                                                                | COPd              |                  |                   |  |  |
| Tj = -7℃<br>Tj = 2℃                         | Pdh               | 6.6         | kW   | Tj = 2℃                                                                             |                   | 1.87             | -                 |  |  |
| <u> </u>                                    | Pdh               | 4.3         | kW   | ,                                                                                   | COPd              | 3.19             | <u> </u>          |  |  |
| Tj = 7°C                                    | Pdh               | 2.8         | kW   | Tj = 7℃                                                                             | COPd              | 4.38             | -                 |  |  |
| Tj = 12°C                                   | Pdh               | 1.3         | kW   | Tj = 12°C                                                                           | COPd              | 5.04             | -                 |  |  |
| Tj = bivalent temperature                   | Pdh               | 6.6         | kW   | Tj = bivalent temperature                                                           | COPd              | 1.87             | -                 |  |  |
| Tj = operating limit                        | Pdh               | 5.5         | kW   | Tj = operating limit                                                                | COPd              | 1.51             | -                 |  |  |
| For air-to-water heat pumps: Tj = -15 C     | Pdh               | -           | kW   | For air-to-water heat pumps: Tj = -15 C                                             | COPd              | -                | -                 |  |  |
| Bivalent temperature                        | Tbiv              | -7          | °C   | For air-to-water heat pumps: Operation limit temperature                            | TOL               | -10              | °C                |  |  |
| Cycling interval capacity for heating       | Pcych             | -           | kW   | Cycling interval efficiency                                                         | COPcyc            | -                | -                 |  |  |
| Degradation co-efficient (**)               | Cdh               | 0.9         |      | Heating water operating limit temperature                                           | WTOL              | 60               | °C                |  |  |
| Power consumption in modes other than a     | ctive mode        |             |      | Supplementary heater                                                                |                   |                  |                   |  |  |
| Off mode                                    | Poff              | 0.009       | kW   | Rated heat output (**)                                                              | Psup              | 1.8              | l kW              |  |  |
| Standby mode                                | Psb               | 0.009       | kW   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                                             | 1 224             | 1.0              | l KVV             |  |  |
| Thermostat-off mode                         | Pto               | 0.010       | kW   | Type of energy input                                                                |                   | Electrical       |                   |  |  |
| Crankcase heater mode                       | Pck               | 0.000       | kW   |                                                                                     |                   |                  |                   |  |  |
| Other items                                 |                   |             |      |                                                                                     |                   |                  |                   |  |  |
| Capacity control                            |                   | variable    |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                       | -                 | 3050             | m <sup>3</sup> /h |  |  |
| Sound power level, indoors/outdoors         | L <sub>WA</sub>   | -/67        | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor  | -                 | -                | m <sup>3</sup> /h |  |  |
| Annual energy consumption                   | Q <sub>HE</sub>   | 4770        | kWh  | heat exchanger                                                                      |                   |                  |                   |  |  |
| For heat pump combination heater:           |                   |             |      |                                                                                     |                   |                  |                   |  |  |
| Declared load profile                       |                   | -           |      | Water heating energy efficiency                                                     | η <sub>wh</sub>   | -                | %                 |  |  |
| Daily electricity consumption               | Q <sub>clec</sub> | -           | kWh  | Daily fuel consumption                                                              | Q <sub>fuel</sub> | -                | kW                |  |  |
| Annual electricity consumption              | AEC               | -           | kWh  | Annual fuel consumption                                                             | AFC               | -                | G                 |  |  |
| Contact details                             |                   |             |      | eri,1/3 San Vito di Leguzzano (VI) Italia iairconditioner.com                       |                   |                  |                   |  |  |

|                                                                          |                   | Tech        | nical | parameters                                                                         |                   |                   |                   |  |
|--------------------------------------------------------------------------|-------------------|-------------|-------|------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|--|
| Model(s):                                                                |                   |             |       | MHP9RP24MI                                                                         |                   |                   |                   |  |
| Air-to-water heat pump:                                                  |                   |             |       | YES                                                                                |                   |                   |                   |  |
| Water-to-water heat pump:                                                |                   |             |       | NO                                                                                 |                   |                   |                   |  |
| Brine-to-water heat pump:                                                |                   |             |       | NO                                                                                 |                   |                   |                   |  |
| Low-temperature heat pump:                                               |                   |             |       | NO                                                                                 |                   |                   |                   |  |
| Equipped with a supplementary heate                                      | r:                |             |       | NO                                                                                 |                   |                   |                   |  |
| Heat pump combination heater:                                            |                   |             |       | NO                                                                                 |                   |                   |                   |  |
| Declared climate condition:                                              |                   |             |       | COLDER                                                                             |                   |                   |                   |  |
| Parameters are declared for medium-                                      | temperature       | application |       |                                                                                    |                   |                   |                   |  |
| Item                                                                     | Symbol            | Value       | Unit  | Item                                                                               | Symbol            | Value             | Un                |  |
| Rated heat output (*)                                                    | Prated            | 8.2         | kW    | Seasonal space heating energy efficiency                                           | -                 | 109               | %                 |  |
| Declared capacity for heating for part load a and outdoor temperature Tj |                   |             | Ь——   | Declared coefficient of performance or primindoor temperature 20 °C and outdoor te |                   | itio for part loa |                   |  |
| Tj = -7℃                                                                 | Pdh               | 5.4         | kW    | Tj = -7℃                                                                           | COPd              | 2.43              | -                 |  |
| Tj = 2 °C                                                                | Pdh               | 3.3         | kW    | Tj = 2°C                                                                           | COPd              | 3.40              | -                 |  |
| Tj = 7 °C                                                                | Pdh               | 2.2         | kW    | Tj = 7°C                                                                           | COPd              | 4.59              | -                 |  |
| Tj = 12℃                                                                 | Pdh               | 0.9         | kW    | Tj = 12°C                                                                          | COPd              | 4.28              | -                 |  |
| Tj = bivalent temperature                                                | Pdh               | 6.1         | kW    | Tj = bivalent temperature                                                          | COPd              | 1.98              | -                 |  |
| Tj = operating limit                                                     | Pdh               | 4.2         | kW    | Tj = operating limit                                                               | COPd              | 1.29              | -                 |  |
| For air-to-water heat pumps: Tj = -15°C                                  | Pdh               | 5.5         | kW    | For air-to-water heat pumps: Tj = -15 °C                                           | COPd              | 1.76              | -                 |  |
| Bivalent temperature                                                     | Tbiv              | -12         | °C    | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | -18               | °C                |  |
| Cycling interval capacity for heating                                    | Pcych             | -           | kW    | Cycling interval efficiency                                                        | COPcyc            | -                 | -                 |  |
| Degradation co-efficient (**)                                            | Cdh               | 0.9         |       | Heating water operating limit temperature                                          | WTOL              | 44                | °C                |  |
| Power consumption in modes other than ac                                 | tive mode         |             |       | Supplementary heater                                                               |                   |                   |                   |  |
| Off mode                                                                 | Poff              | 0.009       | kW    | Rated heat output (**)                                                             | Psup              | 6.3               | kW                |  |
| Standby mode                                                             | Psb               | 0.009       | kW    | Nated Heat Output ( )                                                              | 1 Sup             | 0.3               | KV                |  |
| Thermostat-off mode                                                      | Pto               | 0.010       | kW    | Type of energy input                                                               |                   | _                 |                   |  |
| Crankcase heater mode                                                    | Pck               | 0.000       | kW    |                                                                                    |                   |                   |                   |  |
| Other items                                                              |                   |             |       |                                                                                    |                   |                   |                   |  |
| Capacity control                                                         |                   | variable    |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 3050              | m³/h              |  |
| Sound power level, indoors/outdoors                                      | L <sub>WA</sub>   | -/67        | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -                 | m <sup>3</sup> /l |  |
| Annual energy consumption                                                | Q <sub>HE</sub>   | 7286        | kWh   | heat exchanger                                                                     |                   |                   |                   |  |
| For heat pump combination heater:                                        |                   |             |       |                                                                                    |                   |                   |                   |  |
| Declared load profile                                                    |                   | -           |       | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -                 | %                 |  |
| Daily electricity consumption                                            | Q <sub>clec</sub> | -           | kWh   | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -                 | kW                |  |
| Annual electricity consumption                                           | AEC               | -           | kWh   | Annual fuel consumption                                                            | AFC               | -                 | G.                |  |
| Contact details                                                          |                   |             |       | eri,1/3 San Vito di Leguzzano (VI) Italia                                          |                   |                   |                   |  |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                                              |                   |                |      | MHP9RP24MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |       |                |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|----------------|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |       |                |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                |      | NO NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |       |                |  |  |  |  |
| Brine-to-water heat pump:                                              |                   |                | NO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Equipped with a supplementary heat                                     | er:               |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| leat pump combination heater:                                          |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |       |                |  |  |  |  |
| Declared climate condition:                                            |                   |                |      | WARMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |       |                |  |  |  |  |
| Parameters are declared for medium                                     | -temperature      | application    | 1.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
|                                                                        |                   | •••            |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbol            | Value | Ur             |  |  |  |  |
| Rated heat output (*)                                                  | Prated            | 8.6            | kW   | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηs                | 164   | %              |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor tem     | perature 20 °( |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 ° |                   |       | ad at          |  |  |  |  |
| Tj = -7℃                                                               | Pdh               | -              | kW   | Tj = -7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COPd              | -     | -              |  |  |  |  |
| Tj = 2℃                                                                | Pdh               | 8.6            | kW   | Tj = 2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 2.15  | -              |  |  |  |  |
| Tj = 7℃                                                                | Pdh               | 5.6            | kW   | Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.43  | -              |  |  |  |  |
| Tj = 12°C                                                              | Pdh               | 2.6            | kW   | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 5.57  | -              |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 5.6            | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.43  |                |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 8.6            | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 2.14  |                |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | -     | Τ.             |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | 7              | °C   | For air-to-water heat pumps: Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOL               | 2     | °(             |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -     | -              |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 60    | °(             |  |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |       |                |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 0.0   | k۱             |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.010          | kW   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | -     |                |  |  |  |  |
| Other items                                                            |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
|                                                                        |                   |                |      | For air-to-water heat pumps:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |       |                |  |  |  |  |
| Capacity control                                                       |                   | variable       |      | Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 3050  | m <sup>3</sup> |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/67           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -     | m <sup>3</sup> |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 2774           | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |       |                |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -     | (              |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -     | k\             |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -     | (              |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·                                  |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |       |                |  |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |       |                |  |  |  |  |

| Model(s):                                                              |                   |                |          | MHP12RP24MI                                                                          |                   |                |                  |  |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|----------|--------------------------------------------------------------------------------------|-------------------|----------------|------------------|--|--|--|--|
| Air-to-water heat pump:                                                |                   |                |          | YES                                                                                  |                   |                |                  |  |  |  |  |
| Water-to-water heat pump:                                              |                   |                |          | NO                                                                                   |                   |                |                  |  |  |  |  |
| Brine-to-water heat pump:                                              |                   |                | NO NO    |                                                                                      |                   |                |                  |  |  |  |  |
| Low-temperature heat pump:                                             |                   |                | NO<br>NO |                                                                                      |                   |                |                  |  |  |  |  |
| Equipped with a supplementary heate                                    | er:               |                |          | NO                                                                                   |                   |                |                  |  |  |  |  |
| Heat pump combination heater:                                          |                   |                |          | NO                                                                                   |                   |                |                  |  |  |  |  |
| Declared climate condition:                                            |                   |                |          | AVERAGE                                                                              |                   |                |                  |  |  |  |  |
| Parameters are declared for medium-                                    | temperature       | e application  | ).       |                                                                                      |                   |                |                  |  |  |  |  |
|                                                                        |                   |                |          |                                                                                      |                   |                |                  |  |  |  |  |
| Item                                                                   | Symbol            | Value          | Unit     | Item                                                                                 | Symbol            | Value          | Un               |  |  |  |  |
| Rated heat output (*)                                                  | Prated            | 12.8           | kW       | Seasonal space heating energy efficiency                                             | ηs                | 126            | %                |  |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °C | 5        | Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell |                   |                | ad at            |  |  |  |  |
| Tj = -7℃                                                               | Pdh               | 11.3           | kW       | Tj = -7°C                                                                            | COPd              | 2.05           | -                |  |  |  |  |
| Tj = 2℃                                                                | Pdh               | 7.3            | kW       | Tj = 2°C                                                                             | COPd              | 3.14           | -                |  |  |  |  |
| Tj = 7 ℃                                                               | Pdh               | 5.0            | kW       | Tj = 7 °C                                                                            | COPd              | 4.25           | -                |  |  |  |  |
| Tj = 12℃                                                               | Pdh               | 2.4            | kW       | Tj = 12℃                                                                             | COPd              | 4.94           | -                |  |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 11.3           | kW       | Tj = bivalent temperature                                                            | COPd              | 2.05           | -                |  |  |  |  |
| Tj = operating limit                                                   | Pdh               | 11.9           | kW       | Tj = operating limit                                                                 | COPd              | 1.79           | -                |  |  |  |  |
| For air-to-water heat pumps: Tj = -15 C                                | Pdh               | -              | kW       | For air-to-water heat pumps: Tj = -15 °C                                             | COPd              | -              | -                |  |  |  |  |
| Bivalent temperature                                                   | Tbiv              | -7             | °C       | For air-to-water heat pumps: Operation limit temperature                             | TOL               | -10            | °C               |  |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW       | Cycling interval efficiency                                                          | COPcyc            | -              | -                |  |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |          | Heating water operating limit temperature                                            | WTOL              | 60             | °(               |  |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |          | Supplementary heater                                                                 |                   |                |                  |  |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW       | 2                                                                                    | _                 |                |                  |  |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW       | Rated heat output (**)                                                               | Psup              | 0.9            | k۱               |  |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.015          | kW       | Time of energy input                                                                 |                   |                |                  |  |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW       | Type of energy input                                                                 | Elec              | ctrical Heatin | g                |  |  |  |  |
| Other items                                                            |                   |                |          |                                                                                      |                   |                |                  |  |  |  |  |
| Capacity control                                                       |                   | variable       |          | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                        | -                 | 6150           | m <sup>3</sup> / |  |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/68           | dB       | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor   | -                 | -              | m <sup>3</sup> . |  |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 8164           | kWh      | heat exchanger                                                                       |                   |                |                  |  |  |  |  |
| For heat pump combination heater:                                      |                   |                |          |                                                                                      |                   |                |                  |  |  |  |  |
| Declared load profile                                                  |                   | -              |          | Water heating energy efficiency                                                      | η <sub>wh</sub>   | -              | (                |  |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh      | Daily fuel consumption                                                               | Q <sub>fuel</sub> | -              | k۱               |  |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh      | Annual fuel consumption                                                              | AFC               | -              | G                |  |  |  |  |
| Contact details                                                        |                   |                |          | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                     |                   |                |                  |  |  |  |  |

| Model(s):                                                              |                   |                  |            | MHP12RP24MI                                                                        |                   |                 |                   |  |  |  |
|------------------------------------------------------------------------|-------------------|------------------|------------|------------------------------------------------------------------------------------|-------------------|-----------------|-------------------|--|--|--|
| Air-to-water heat pump:                                                |                   |                  |            | YES                                                                                |                   |                 |                   |  |  |  |
| Water-to-water heat pump:                                              |                   |                  | NO         |                                                                                    |                   |                 |                   |  |  |  |
| Brine-to-water heat pump:                                              |                   |                  |            | NO                                                                                 |                   |                 |                   |  |  |  |
| Low-temperature heat pump:                                             |                   |                  |            | NO                                                                                 |                   |                 |                   |  |  |  |
| Equipped with a supplementary heater                                   | r:                |                  |            | NO                                                                                 |                   |                 |                   |  |  |  |
| Heat pump combination heater:                                          |                   |                  |            | NO                                                                                 |                   |                 |                   |  |  |  |
| Declared climate condition:                                            |                   |                  |            | COLDER                                                                             |                   |                 |                   |  |  |  |
| Parameters are declared for medium-                                    | temperature       | application      |            |                                                                                    |                   |                 |                   |  |  |  |
| Item                                                                   | Symbol            | Value            | Unit       | Item                                                                               | Symbol            | Value           | Un                |  |  |  |
| Rated heat output (*)                                                  | Prated            | 12.4             | kW         | Seasonal space heating energy efficiency                                           | ηs                | 96              | %                 |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °C   | ;          | Declared coefficient of performance or primindoor temperature 20 °C and outdoor te |                   |                 | ad at             |  |  |  |
| Tj = -7℃                                                               | Pdh               | 7.3              | kW         | Tj = -7℃                                                                           | COPd              | 2.27            | -                 |  |  |  |
| Tj = 2 °C                                                              | Pdh               | 4.5              | kW         | Tj = 2℃                                                                            | COPd              | 2.90            | -                 |  |  |  |
| Tj = 7 ℃                                                               | Pdh               | 2.9              | kW         | Tj = 7℃                                                                            | COPd              | 3.96            | -                 |  |  |  |
| Tj = 12 °C                                                             | Pdh               | 1.4              | kW         | Tj = 12°C                                                                          | COPd              | 3.22            | -                 |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 10.1             | kW         | Tj = bivalent temperature                                                          | COPd              | 1.78            | -                 |  |  |  |
| Tj = operating limit                                                   | Pdh               | 7.7              | kW         | Tj = operating limit                                                               | COPd              | 1.27            | -                 |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | 10.1             | kW         | For air-to-water heat pumps: Tj = -15°C                                            | COPd              | 1.78            | -                 |  |  |  |
| Bivalent temperature                                                   | Tbiv              | -15              | °C         | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | -18             | °C                |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -                | kW         | Cycling interval efficiency                                                        | COPcyc            | -               | -                 |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9              |            | Heating water operating limit temperature                                          | WTOL              | 44              | °C                |  |  |  |
| Power consumption in modes other than ac                               | tive mode         |                  |            | Supplementary heater                                                               |                   |                 |                   |  |  |  |
| Off mode                                                               | Poff              | 0.009            | kW         | Dated heat output (**)                                                             |                   | 0.0             |                   |  |  |  |
| Standby mode                                                           | Psb               | 0.009            | kW         | Rated heat output (**)                                                             | Psup              | 6.8             | kW                |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.015            | kW         | Type of energy input                                                               | EL.               | .1.21.1         |                   |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000            | kW         | Type of energy input                                                               | Ele               | ctrical Heating |                   |  |  |  |
| Other items                                                            |                   |                  |            |                                                                                    |                   |                 |                   |  |  |  |
| Capacity control                                                       |                   | variable         |            | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 6150            | m <sup>3</sup> /h |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/68             | dB         | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -               | m <sup>3</sup> /h |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 12299            | kWh        | heat exchanger                                                                     |                   |                 |                   |  |  |  |
| For heat pump combination heater:                                      |                   |                  |            |                                                                                    |                   |                 |                   |  |  |  |
| Declared load profile                                                  |                   | -                |            | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -               | %                 |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -                | kWh        | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -               | kW                |  |  |  |
| Annual electricity consumption                                         | AEC               | -                | kWh        | Annual fuel consumption                                                            | AFC               | -               | G                 |  |  |  |
| Contact details                                                        | AMG SPA           | √ia delle Arti e | dei Mestie | eri,1/3 San Vito di Leguzzano (VI) Italia                                          | •                 |                 |                   |  |  |  |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                                              |                   |                |      | MHP12RP24MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                 |                |  |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|----------------|--|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                 |                |  |  |  |
| Water-to-water heat pump:                                              |                   |                |      | NO NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                 |                |  |  |  |
| Brine-to-water heat pump:                                              |                   | NO             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                |  |  |  |
| Equipped with a supplementary heate                                    | er:               |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                |  |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                |  |  |  |
| Declared climate condition:                                            |                   |                |      | WARMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                 |                |  |  |  |
| Parameters are declared for medium-                                    | temperature       | application    | 1.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
|                                                                        | · ·               | •••            |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbol            | Value           | Ur             |  |  |  |
| Rated heat output (*)                                                  | Prated            | 11.8           | kW   | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηs                | 148             | %              |  |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °C |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 ° |                   |                 | ad at          |  |  |  |
| Tj = -7 °C                                                             | Pdh               | -              | kW   | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | -               | -              |  |  |  |
| Tj = 2℃                                                                | Pdh               | 11.9           | kW   | Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 2.18            | -              |  |  |  |
| Tj = 7℃                                                                | Pdh               | 7.6            | kW   | Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.08            | -              |  |  |  |
| Tj = 12℃                                                               | Pdh               | 3.5            | kW   | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.94            |                |  |  |  |
| Tj = bivalent temperature                                              | Pdh               | 7.6            | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.08            |                |  |  |  |
| Tj = operating limit                                                   | Pdh               | 11.9           | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 2.18            |                |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | -               |                |  |  |  |
| Bivalent temperature                                                   | Tbiv              | 7              | °C   | For air-to-water heat pumps: Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOL               | 2               | ۰              |  |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -               |                |  |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 60              | ۰              |  |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                 |                |  |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 0.0             | k'             |  |  |  |
| Thermostat-off mode                                                    | Pto               | 0.015          | kW   | Town of account insul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                 |                |  |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Elec              | ctrical Heating | g              |  |  |  |
| Other items                                                            |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 6150            | m <sup>3</sup> |  |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/68           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -               | m <sup>3</sup> |  |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 4207           | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                 |                |  |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                |  |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -               | 1              |  |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -               | k\             |  |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -               | (              |  |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                 |                |  |  |  |

| Model(s):                                                              |                   |                |      | MHP14RP24MI                                                                           |                      |                |                   |  |  |
|------------------------------------------------------------------------|-------------------|----------------|------|---------------------------------------------------------------------------------------|----------------------|----------------|-------------------|--|--|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                   |                      |                |                   |  |  |
| Water-to-water heat pump:                                              |                   |                |      | NO NO                                                                                 |                      |                |                   |  |  |
| Brine-to-water heat pump:                                              |                   |                |      | NO                                                                                    |                      |                |                   |  |  |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                    |                      |                |                   |  |  |
| Equipped with a supplementary heater                                   | er:               |                |      | NO                                                                                    |                      |                |                   |  |  |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                    |                      |                |                   |  |  |
| Declared climate condition:                                            |                   |                |      | AVERAGE                                                                               |                      |                |                   |  |  |
| Parameters are declared for medium-                                    | temperature       | application    | 1.   |                                                                                       |                      |                |                   |  |  |
|                                                                        |                   |                |      |                                                                                       |                      |                |                   |  |  |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                  | Symbol               | Value          | Unit              |  |  |
| Rated heat output (*)                                                  | Prated            | 13.8           | kW   | Seasonal space heating energy efficiency                                              | ηѕ                   | 128            | %                 |  |  |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | oerature 20 °C |      | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tell |                      |                | ad at             |  |  |
| Tj = -7℃                                                               | Pdh               | 12.2           | kW   | Tj = -7°C                                                                             | COPd                 | 2.05           | -                 |  |  |
| Tj = 2 °C                                                              | Pdh               | 7.8            | kW   | Tj = 2 ℃                                                                              | COPd                 | 3.18           | -                 |  |  |
| Tj = 7 °C                                                              | Pdh               | 5.2            | kW   | Tj = 7 °C                                                                             | COPd                 | 4.29           | -                 |  |  |
| Tj = 12˚C                                                              | Pdh               | 2.6            | kW   | Tj = 12℃                                                                              | COPd                 | 5.14           | -                 |  |  |
| Tj = bivalent temperature                                              | Pdh               | 12.2           | kW   | Tj = bivalent temperature                                                             | COPd                 | 2.05           | -                 |  |  |
| Tj = operating limit                                                   | Pdh               | 11.7           | kW   | Tj = operating limit                                                                  | COPd                 | 1.74           | -                 |  |  |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15°C                                               | COPd                 | -              | -                 |  |  |
| Bivalent temperature                                                   | Tbiv              | -7             | °C   | For air-to-water heat pumps: Operation limit temperature                              | TOL                  | -10            | °C                |  |  |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                           | COPcyc               | -              | -                 |  |  |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                             | WTOL                 | 60             | °C                |  |  |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                  |                      |                |                   |  |  |
| Off mode                                                               | Poff              | 0.009          | kW   |                                                                                       |                      |                |                   |  |  |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                                | Psup                 | 2.1            | kW                |  |  |
| Thermostat-off mode                                                    | Pto               | 0.026          | kW   | Town of account insula                                                                |                      |                |                   |  |  |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                  | Elec                 | ctrical Heatin | g                 |  |  |
| Other items                                                            |                   |                |      |                                                                                       |                      |                |                   |  |  |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                         | -                    | 6150           | m <sup>3</sup> /h |  |  |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor    | -                    | -              | m³/h              |  |  |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 8724           | kWh  | heat exchanger                                                                        |                      |                |                   |  |  |
| For heat pump combination heater:                                      |                   |                |      |                                                                                       |                      |                |                   |  |  |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                       | $\eta_{\mathrm{wh}}$ | -              | %                 |  |  |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                | Q <sub>fuel</sub>    | -              | kW                |  |  |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                               | AFC                  | -              | GJ                |  |  |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                      |                      |                |                   |  |  |

|                                                                                                 |                       | Tech        | nical | parameters                                                                          |                   |                |                   |  |  |
|-------------------------------------------------------------------------------------------------|-----------------------|-------------|-------|-------------------------------------------------------------------------------------|-------------------|----------------|-------------------|--|--|
| Model(s):                                                                                       |                       |             |       | MHP14RP24MI                                                                         |                   |                |                   |  |  |
| Air-to-water heat pump:                                                                         |                       |             | YES   |                                                                                     |                   |                |                   |  |  |
| Water-to-water heat pump:                                                                       |                       |             |       | NO                                                                                  |                   |                |                   |  |  |
| Brine-to-water heat pump:                                                                       |                       |             |       | NO                                                                                  |                   |                |                   |  |  |
| Low-temperature heat pump:                                                                      |                       |             |       | NO                                                                                  |                   |                |                   |  |  |
| Equipped with a supplementary heate                                                             | r:                    |             |       | NO                                                                                  |                   |                |                   |  |  |
| Heat pump combination heater:                                                                   |                       |             |       | NO                                                                                  |                   |                |                   |  |  |
| Declared climate condition:                                                                     |                       |             |       | COLDER                                                                              |                   |                |                   |  |  |
| Parameters are declared for medium-                                                             | temperature           | application |       |                                                                                     |                   |                |                   |  |  |
| Hom                                                                                             | Symbol                | Value       | Unit  | Item                                                                                | Symbol            | Value          | 116               |  |  |
| Reted heat output (*)                                                                           | Symbol                | 14.3        | kW    | Seasonal space heating energy efficiency                                            |                   |                | Un<br>%           |  |  |
| Rated heat output (*)  Declared capacity for heating for part load a and outdoor temperature Tj | Prated at indoor temp |             |       | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te |                   |                |                   |  |  |
| Tj = -7℃                                                                                        | Pdh                   | 8.9         | kW    | Tj = -7°C                                                                           | COPd              | 2.35           | -                 |  |  |
| Tj = 2℃                                                                                         | Pdh                   | 5.3         | kW    | Tj = 2℃                                                                             | COPd              | 3.16           | -                 |  |  |
| Tj = 7℃                                                                                         | Pdh                   | 3.3         | kW    | Tj = 7℃                                                                             | COPd              | 4.10           | -                 |  |  |
| Tj = 12°C                                                                                       | Pdh                   | 1.4         | kW    | Tj = 12°C                                                                           | COPd              | 3.20           | -                 |  |  |
| Tj = bivalent temperature                                                                       | Pdh                   | 11.3        | kW    | Tj = bivalent temperature                                                           | COPd              | 1.85           | -                 |  |  |
| Tj = operating limit                                                                            | Pdh                   | 7.7         | kW    | Tj = operating limit                                                                | COPd              | 1.26           | -                 |  |  |
| For air-to-water heat pumps: Tj = -15 °C                                                        | Pdh                   | 10.8        | kW    | For air-to-water heat pumps: Tj = -15°C                                             | COPd              | 1.77           | -                 |  |  |
| Bivalent temperature                                                                            | Tbiv                  | -14         | °C    | For air-to-water heat pumps:<br>Operation limit temperature                         | TOL               | -18            | °C                |  |  |
| Cycling interval capacity for heating                                                           | Pcych                 | -           | kW    | Cycling interval efficiency                                                         | COPcyc            | -              | -                 |  |  |
| Degradation co-efficient (**)                                                                   | Cdh                   | 0.9         |       | Heating water operating limit temperature                                           | WTOL              | 44             | °C                |  |  |
| Power consumption in modes other than ac                                                        | tive mode             |             |       | Supplementary heater                                                                |                   |                |                   |  |  |
| Off mode                                                                                        | Poff                  | 0.009       | kW    | Dated heat output (**)                                                              |                   | 0.7            | l                 |  |  |
| Standby mode                                                                                    | Psb                   | 0.009       | kW    | Rated heat output (**)                                                              | Psup              | 8.7            | kW                |  |  |
| Thermostat-off mode                                                                             | Pto                   | 0.026       | kW    | Type of energy input                                                                | El-               | -4-:           |                   |  |  |
| Crankcase heater mode                                                                           | Pck                   | 0.000       | kW    | Type of energy input                                                                | Elec              | ctrical Heatin | g<br>             |  |  |
| Other items                                                                                     |                       |             |       |                                                                                     |                   |                |                   |  |  |
| Capacity control                                                                                |                       | variable    |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                       | -                 | 6150           | m <sup>3</sup> /l |  |  |
| Sound power level, indoors/outdoors                                                             | L <sub>WA</sub>       | -/71        | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor  | -                 | -              | m <sup>3</sup> /  |  |  |
| Annual energy consumption                                                                       | Q <sub>HE</sub>       | 13449       | kWh   | heat exchanger                                                                      |                   |                |                   |  |  |
| For heat pump combination heater:                                                               |                       |             |       |                                                                                     |                   |                |                   |  |  |
| Declared load profile                                                                           |                       | -           |       | Water heating energy efficiency                                                     | η <sub>wh</sub>   | -              | %                 |  |  |
| Daily electricity consumption                                                                   | Q <sub>clec</sub>     | -           | kWh   | Daily fuel consumption                                                              | Q <sub>fuel</sub> | -              | kV                |  |  |
| Annual electricity consumption                                                                  | AEC                   | -           | kWh   | Annual fuel consumption                                                             | AFC               | -              | G                 |  |  |
| Contact details                                                                                 |                       |             |       | eri,1/3 San Vito di Leguzzano (VI) Italia                                           |                   |                |                   |  |  |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                                              |                   |             |      | MHP14RP24MI                                                                         |                   |                  |                   |
|------------------------------------------------------------------------|-------------------|-------------|------|-------------------------------------------------------------------------------------|-------------------|------------------|-------------------|
| Air-to-water heat pump:                                                |                   |             |      | YES                                                                                 |                   |                  |                   |
| Water-to-water heat pump:                                              |                   |             |      | NO                                                                                  |                   |                  |                   |
| Brine-to-water heat pump:                                              |                   |             |      | NO                                                                                  |                   |                  |                   |
| Low-temperature heat pump:                                             |                   |             |      | NO                                                                                  |                   |                  |                   |
| Equipped with a supplementary heat                                     | er:               |             |      | NO                                                                                  |                   |                  |                   |
| Heat pump combination heater:                                          |                   |             |      | NO                                                                                  |                   |                  |                   |
| Declared climate condition:                                            |                   |             |      | WARMER                                                                              |                   |                  |                   |
| Parameters are declared for medium                                     | -temperature      | application | ١.   |                                                                                     |                   |                  |                   |
| Item                                                                   | Symbol            | Value       | Unit | Item                                                                                | Symbol            | Value            | Uni               |
| Rated heat output (*)                                                  | Prated            | 13.9        | kW   | Seasonal space heating energy efficiency                                            | ηs                | 154              | %                 |
| Declared capacity for heating for part load and outdoor temperature Tj |                   |             |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor tel | ary energy ra     | itio for part lo |                   |
|                                                                        | Pdh               |             | 100/ | Tj = -7 $^{\circ}$ C                                                                | COPd              |                  |                   |
| Tj = -7℃<br>Tj = 2℃                                                    | Pdh               | -           | kW   | Tj = 2℃                                                                             | COPd              | 2.17             | -                 |
| Tj = 7°C                                                               | Pdh               | 13.8        | kW   | Tj = 7℃                                                                             | COPd              | 3.18             | -                 |
| Tj = 12°C                                                              | -                 | 9.0         | kW   | ,                                                                                   |                   |                  | -                 |
| Tj = bivalent temperature                                              | Pdh               | 4.2         |      | Tj = 12 C  Tj = bivalent temperature                                                | COPd              | 5.26             | -                 |
| Tj = operating limit                                                   | Pdh<br>Pdh        | 9.0         | kW   | Tj = operating limit                                                                | COPd<br>COPd      | 3.18<br>2.17     | _                 |
| For air-to-water heat pumps: Tj = -15°C                                | Pdh               | 13.8        | kW   | For air-to-water heat pumps: Tj = -15°C                                             | COPd              | 2.17             |                   |
|                                                                        | T GII             |             |      | For air-to-water heat pumps:                                                        |                   |                  |                   |
| Bivalent temperature                                                   | Tbiv              | 7           | °C   | Operation limit temperature                                                         | TOL               | 2                | °C                |
| Cycling interval capacity for heating                                  | Pcych             | -           | kW   | Cycling interval efficiency                                                         | COPcyc            | -                | <u> </u>          |
| Degradation co-efficient (**)                                          | Cdh               | 0.9         |      | Heating water operating limit temperature                                           | WTOL              | 60               | °C                |
| Power consumption in modes other than a                                | ctive mode        |             |      | Supplementary heater                                                                |                   |                  |                   |
| Off mode                                                               | Poff              | 0.009       | kW   | Rated heat output (**)                                                              | Psup              | 0.1              | kW                |
| Standby mode                                                           | Psb               | 0.009       | kW   |                                                                                     |                   | 0.1              |                   |
| Thermostat-off mode                                                    | Pto               | 0.026       | kW   | Type of energy input                                                                | Flee              | ctrical Heatin   | ıa                |
| Crankcase heater mode                                                  | Pck               | 0.000       | kW   |                                                                                     | Liov              |                  |                   |
| Other items                                                            |                   |             |      |                                                                                     |                   |                  |                   |
| Capacity control                                                       |                   | variable    |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                       | -                 | 6150             | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71        | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor  | -                 | -                | m <sup>3</sup> /h |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 4746        | kWh  | heat exchanger                                                                      |                   |                  |                   |
| For heat pump combination heater:                                      |                   |             |      |                                                                                     |                   |                  |                   |
| Declared load profile                                                  |                   | -           |      | Water heating energy efficiency                                                     | η <sub>wh</sub>   | -                | %                 |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -           | kWh  | Daily fuel consumption                                                              | Q <sub>fuel</sub> | -                | kW                |
| Annual electricity consumption                                         | AEC               | -           | kWh  | Annual fuel consumption                                                             | AFC               | -                | GJ                |
| Contact details                                                        |                   |             |      | eri,1/3 San Vito di Leguzzano (VI) Italia iairconditioner.com                       |                   |                  |                   |

| Model(s):                                                                                     |                          |                        |         |                                                                                                                               |                   |                |             |
|-----------------------------------------------------------------------------------------------|--------------------------|------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|-------------|
|                                                                                               |                          |                        |         | MHP16RP24MI                                                                                                                   |                   |                |             |
| Air-to-water heat pump:                                                                       |                          |                        |         | YES                                                                                                                           |                   |                |             |
| Water-to-water heat pump:                                                                     |                          |                        |         | NO                                                                                                                            |                   |                |             |
| Brine-to-water heat pump:                                                                     |                          |                        |         | NO                                                                                                                            |                   |                |             |
| _ow-temperature heat pump:                                                                    |                          |                        |         | NO                                                                                                                            |                   |                |             |
| Equipped with a supplementary heat                                                            | er:                      |                        |         | NO                                                                                                                            |                   |                |             |
| Heat pump combination heater:                                                                 |                          |                        |         | NO                                                                                                                            |                   |                |             |
| Declared climate condition:                                                                   |                          |                        |         | AVERAGE                                                                                                                       |                   |                |             |
| Parameters are declared for medium                                                            | -temperature             | e application          | ١.      |                                                                                                                               |                   |                |             |
|                                                                                               | I                        |                        | 11-7    | ш                                                                                                                             | O. mak al         | Makin          | I           |
| tem                                                                                           | Symbol                   | Value                  | Unit    | Item                                                                                                                          | Symbol            | Value          | Unit        |
| Rated heat output (*)  Declared capacity for heating for part load and outdoor temperature Ti | Prated<br>at indoor temp | 14.6<br>perature 20 °C | kW C    | Seasonal space heating energy efficiency  Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te |                   |                | %<br>pad at |
| Гj = -7°С                                                                                     | Pdh                      | 12.9                   | kW      | Tj = -7°C                                                                                                                     | COPd              | 2.04           | _           |
| Гj = 2°С                                                                                      | Pdh                      | 8.3                    | kW      | Tj = 2°C                                                                                                                      | COPd              | 3.21           | -           |
| Гј = 7˚С                                                                                      | Pdh                      | 5.5                    | kW      | Tj = 7℃                                                                                                                       | COPd              | 4.32           | -           |
| Γj = 12℃                                                                                      | Pdh                      | 2.6                    | kW      | Tj = 12°C                                                                                                                     | COPd              | 5.12           | -           |
| Γj = bivalent temperature                                                                     | Pdh                      | 12.9                   | kW      | Tj = bivalent temperature                                                                                                     | COPd              | 2.04           | -           |
| Γj = operating limit                                                                          | Pdh                      | 11.2                   | kW      | Tj = operating limit                                                                                                          | COPd              | 1.65           | -           |
| For air-to-water heat pumps: Tj = -15°C                                                       | Pdh                      | -                      | kW      | For air-to-water heat pumps: Tj = -15°C                                                                                       | COPd              | -              | -           |
| Bivalent temperature                                                                          | Tbiv                     | -7                     | °C      | For air-to-water heat pumps:<br>Operation limit temperature                                                                   | TOL               | -10            | °C          |
| Cycling interval capacity for heating                                                         | Pcych                    | -                      | kW      | Cycling interval efficiency                                                                                                   | COPcyc            | -              | -           |
| Degradation co-efficient (**)                                                                 | Cdh                      | 0.9                    |         | Heating water operating limit temperature                                                                                     | WTOL              | 60             | °C          |
| Power consumption in modes other than a                                                       | ctive mode               |                        |         | Supplementary heater                                                                                                          |                   |                |             |
| Off mode                                                                                      | Poff                     | 0.009                  | kW      | Dated heat output (**)                                                                                                        | _                 |                |             |
| Standby mode                                                                                  | Psb                      | 0.009                  | kW      | Rated heat output (**)                                                                                                        | Psup              | 3.4            | kW          |
| Thermostat-off mode                                                                           | Pto                      | 0.041                  | kW      | Type of energy input                                                                                                          | El-               | -4-:!!!4:      |             |
| Crankcase heater mode                                                                         | Pck                      | 0.000                  | kW      | Type of energy input                                                                                                          | Ele               | ctrical Heatin | g<br>       |
| Other items                                                                                   |                          |                        |         |                                                                                                                               |                   |                |             |
| Capacity control                                                                              |                          | variable               |         | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                 | -                 | 6150           | m³/h        |
| Sound power level, indoors/outdoors                                                           | L <sub>WA</sub>          | -/71                   | dB      | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                            | -                 | -              | m³/h        |
| Annual energy consumption                                                                     | Q <sub>HE</sub>          | 9216                   | kWh     | heat exchanger                                                                                                                |                   |                |             |
| For heat pump combination heater:                                                             |                          |                        |         |                                                                                                                               |                   |                |             |
| Declared load profile                                                                         |                          | -                      |         | Water heating energy efficiency                                                                                               | η <sub>wh</sub>   | -              | %           |
| Daily electricity consumption                                                                 | Q <sub>clec</sub>        | -                      | kWh     | Daily fuel consumption                                                                                                        | Q <sub>fuel</sub> | -              | kW          |
| Annual electricity consumption                                                                | AEC                      | -                      | kWh     | Annual fuel consumption                                                                                                       | AFC               | -              | GJ          |
|                                                                                               | AMO CDA                  | Vio delle A C          | a da: M | eri,1/3 San Vito di Leguzzano (VI) Italia                                                                                     |                   |                |             |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                   |                   |                |      | MHP16RP24MI                                                                        |                      |                |                   |
|---------------------------------------------|-------------------|----------------|------|------------------------------------------------------------------------------------|----------------------|----------------|-------------------|
| Air-to-water heat pump:                     |                   |                |      | YES                                                                                |                      |                |                   |
| Water-to-water heat pump:                   |                   |                |      | NO                                                                                 |                      |                |                   |
| Brine-to-water heat pump:                   |                   |                |      | NO                                                                                 |                      |                |                   |
| Low-temperature heat pump:                  |                   |                |      | NO                                                                                 |                      |                |                   |
| Equipped with a supplementary heate         | er:               |                |      | NO                                                                                 |                      |                |                   |
| Heat pump combination heater:               |                   |                |      | NO                                                                                 |                      |                |                   |
| Declared climate condition:                 |                   |                |      | COLDER                                                                             |                      |                |                   |
| Parameters are declared for medium          | -temperature      | application    | l.   |                                                                                    |                      |                |                   |
| Item                                        | Symbol            | Value          | Unit | Item                                                                               | Symbol               | Value          | Uni               |
| Rated heat output (*)                       | Prated            | 15.2           | kW   | Seasonal space heating energy efficiency                                           | ηs                   | 106            | %                 |
| Declared capacity for heating for part load |                   |                |      | Declared coefficient of performance or prim                                        | <u> </u>             |                | , ,               |
| and outdoor temperature Tj                  | at indoor temp    | perature 20 °C |      | indoor temperature 20 °C and outdoor tel                                           |                      |                |                   |
| Tj = -7℃                                    | Pdh               | 9.6            | kW   | Tj = -7 C                                                                          | COPd                 | 2.38           | -                 |
| Tj = 2 °C                                   | Pdh               | 5.6            | kW   | Tj = 2℃                                                                            | COPd                 | 3.31           | -                 |
| Tj = 7 °C                                   | Pdh               | 4.0            | kW   | Tj = 7 °C                                                                          | COPd                 | 4.47           | -                 |
| Tj = 12℃                                    | Pdh               | 1.9            | kW   | Tj = 12℃                                                                           | COPd                 | 4.05           | -                 |
| Tj = bivalent temperature                   | Pdh               | 11.6           | kW   | Tj = bivalent temperature                                                          | COPd                 | 1.88           | -                 |
| Tj = operating limit                        | Pdh               | 6.7            | kW   | Tj = operating limit                                                               | COPd                 | 1.10           | -                 |
| For air-to-water heat pumps: Tj = -15 °C    | Pdh               | 10.7           | kW   | For air-to-water heat pumps: Tj = -15°C                                            | COPd                 | 1.76           | -                 |
| Bivalent temperature                        | Tbiv              | -13            | °C   | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL                  | -18            | °C                |
| Cycling interval capacity for heating       | Pcych             | -              | kW   | Cycling interval efficiency                                                        | COPcyc               | -              | -                 |
| Degradation co-efficient (**)               | Cdh               | 0.9            |      | Heating water operating limit temperature                                          | WTOL                 | 44             | °C                |
| Power consumption in modes other than a     | ctive mode        |                |      | Supplementary heater                                                               |                      |                |                   |
| Off mode                                    | Poff              | 0.009          | kW   | Detect head autout (**)                                                            | _                    |                |                   |
| Standby mode                                | Psb               | 0.009          | kW   | Rated heat output (**)                                                             | Psup                 | 9.6            | kW                |
| Thermostat-off mode                         | Pto               | 0.041          | kW   | Type of energy input                                                               |                      |                |                   |
| Crankcase heater mode                       | Pck               | 0.000          | kW   | Type or energy input                                                               | Elec                 | ctrical Heatin | g<br>             |
| Other items                                 |                   |                |      |                                                                                    |                      |                |                   |
| Capacity control                            |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                    | 6150           | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors         | L <sub>WA</sub>   | -/71           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                    | -              | m <sup>3</sup> /h |
| Annual energy consumption                   | Q <sub>HE</sub>   | 13768          | kWh  | heat exchanger                                                                     |                      |                |                   |
| For heat pump combination heater:           |                   |                |      |                                                                                    |                      |                |                   |
| Declared load profile                       |                   | -              |      | Water heating energy efficiency                                                    | $\eta_{\mathrm{wh}}$ | -              | %                 |
| Daily electricity consumption               | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                             | Q <sub>fuel</sub>    | -              | kW                |
| Annual electricity consumption              | AEC               | -              | kWh  | Annual fuel consumption                                                            | AFC                  | -              | GJ                |
| Contact details                             |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia iairconditioner.com                      |                      |                |                   |

| Model(s):                                                              |                   |               |      | MHP16RP24MI                                                                         |                   |                |                |
|------------------------------------------------------------------------|-------------------|---------------|------|-------------------------------------------------------------------------------------|-------------------|----------------|----------------|
| Air-to-water heat pump:                                                |                   |               |      | YES                                                                                 |                   |                |                |
| Water-to-water heat pump:                                              |                   |               |      | NO                                                                                  |                   |                |                |
| Brine-to-water heat pump:                                              |                   |               |      | NO                                                                                  |                   |                |                |
| Low-temperature heat pump:                                             |                   |               |      | NO                                                                                  |                   |                |                |
| Equipped with a supplementary heate                                    | er:               |               |      | NO                                                                                  |                   |                |                |
| Heat pump combination heater:                                          |                   |               |      | NO                                                                                  |                   |                |                |
| Declared climate condition:                                            |                   |               |      | WARMER                                                                              |                   |                |                |
| Parameters are declared for medium-                                    | temperature       | application   | ١.   |                                                                                     |                   |                |                |
| н                                                                      | O was book        | Value         | Unit | Item                                                                                | Symbol            | Value          | Ι.,            |
| Reted heat output (*)                                                  | Symbol            | Value<br>15.7 | kW   |                                                                                     |                   |                | Uı<br>%        |
| Rated heat output (*)                                                  | Prated            |               |      | Seasonal space heating energy efficiency                                            | ηs                | 154            |                |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 ( |      | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te |                   |                | au ai          |
| Tj = -7°C                                                              | Pdh               | -             | kW   | Tj = -7℃                                                                            | COPd              | -              |                |
| Tj = 2℃                                                                | Pdh               | 14.1          | kW   | Tj = 2℃                                                                             | COPd              | 2.14           |                |
| Tj = 7℃                                                                | Pdh               | 10.1          | kW   | Tj = 7 °C                                                                           | COPd              | 3.22           |                |
| Tj = 12℃                                                               | Pdh               | 4.8           | kW   | Tj = 12℃                                                                            | COPd              | 5.46           |                |
| Tj = bivalent temperature                                              | Pdh               | 10.1          | kW   | Tj = bivalent temperature                                                           | COPd              | 3.22           |                |
| Tj = operating limit                                                   | Pdh               | 14.1          | kW   | Tj = operating limit                                                                | COPd              | 2.14           |                |
| For air-to-water heat pumps: Tj = -15 C                                | Pdh               | -             | kW   | For air-to-water heat pumps: Tj = -15 °C                                            | COPd              | -              |                |
| Bivalent temperature                                                   | Tbiv              | 7             | °C   | For air-to-water heat pumps: Operation limit temperature                            | TOL               | 2              | ٥              |
| Cycling interval capacity for heating                                  | Pcych             | -             | kW   | Cycling interval efficiency                                                         | COPcyc            | -              |                |
| Degradation co-efficient (**)                                          | Cdh               | 0.9           |      | Heating water operating limit temperature                                           | WTOL              | 60             | c              |
| Power consumption in modes other than a                                | ctive mode        |               |      | Supplementary heater                                                                |                   |                |                |
| Off mode                                                               | Poff              | 0.009         | kW   | Detect heart subsub (**)                                                            |                   |                |                |
| Standby mode                                                           | Psb               | 0.009         | kW   | Rated heat output (**)                                                              | Psup              | 1.6            | k              |
| Thermostat-off mode                                                    | Pto               | 0.041         | kW   | Type of energy input                                                                |                   |                |                |
| Crankcase heater mode                                                  | Pck               | 0.000         | kW   | Type or energy input                                                                | Elec              | ctrical Heatin | g<br>          |
| Other items                                                            |                   |               |      |                                                                                     |                   |                |                |
| Capacity control                                                       |                   | variable      |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                       | -                 | 6150           | m <sup>3</sup> |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71          | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor  | -                 | -              | m <sup>3</sup> |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 5367          | kWh  | heat exchanger                                                                      |                   |                |                |
| For heat pump combination heater:                                      |                   |               |      |                                                                                     |                   |                |                |
| Declared load profile                                                  |                   | -             |      | Water heating energy efficiency                                                     | η <sub>wh</sub>   | -              | Г              |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -             | kWh  | Daily fuel consumption                                                              | Q <sub>fuel</sub> | -              | k'             |
| Annual electricity consumption                                         | AEC               | -             | kWh  | Annual fuel consumption                                                             | AFC               | -              | (              |
| Contact details                                                        |                   |               |      | eri,1/3 San Vito di Leguzzano (VI) Italia                                           |                   |                |                |

| Model(s):                                                                   |                   |                |      | MHP12RP24P3MI                                                                      |                   |                |                |
|-----------------------------------------------------------------------------|-------------------|----------------|------|------------------------------------------------------------------------------------|-------------------|----------------|----------------|
| Air-to-water heat pump:                                                     |                   |                |      | YES                                                                                |                   |                |                |
| Water-to-water heat pump:                                                   |                   |                |      | NO                                                                                 |                   |                |                |
| Brine-to-water heat pump:                                                   |                   |                |      | NO                                                                                 |                   |                |                |
| Low-temperature heat pump:                                                  |                   |                |      | NO                                                                                 |                   |                |                |
| Equipped with a supplementary heate                                         | r:                |                |      | NO                                                                                 |                   |                |                |
| Heat pump combination heater:                                               |                   |                |      | NO                                                                                 |                   |                |                |
| Declared climate condition:                                                 |                   |                |      | AVERAGE                                                                            |                   |                |                |
| Parameters are declared for medium-                                         | temperature       | e application  | 1.   |                                                                                    |                   |                |                |
|                                                                             | -                 |                |      |                                                                                    |                   |                |                |
| ltem                                                                        | Symbol            | Value          | Unit | Item                                                                               | Symbol            | Value          | Uı             |
| Rated heat output (*)                                                       | Prated            | 12.8           | kW   | Seasonal space heating energy efficiency                                           | ηs                | 126            | %              |
| Declared capacity for heating for part load a<br>and outdoor temperature Tj | at indoor temp    | perature 20 °C |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor te |                   |                | ad at          |
| Tj = -7°C                                                                   | Pdh               | 11.3           | kW   | Tj = -7°C                                                                          | COPd              | 2.05           |                |
| Tj = 2℃                                                                     | Pdh               | 7.3            | kW   | Tj = 2℃                                                                            | COPd              | 3.14           |                |
| Тj = 7 °С                                                                   | Pdh               | 5.0            | kW   | Tj = 7 °C                                                                          | COPd              | 4.25           |                |
| Tj = 12℃                                                                    | Pdh               | 2.4            | kW   | Tj = 12℃                                                                           | COPd              | 4.94           |                |
| Tj = bivalent temperature                                                   | Pdh               | 11.3           | kW   | Tj = bivalent temperature                                                          | COPd              | 2.05           |                |
| Tj = operating limit                                                        | Pdh               | 11.9           | kW   | Tj = operating limit                                                               | COPd              | 1.79           |                |
| For air-to-water heat pumps: Tj = -15℃                                      | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15 °C                                           | COPd              | -              |                |
| Bivalent temperature                                                        | Tbiv              | -7             | °C   | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | -10            | ۰              |
| Cycling interval capacity for heating                                       | Pcych             | -              | kW   | Cycling interval efficiency                                                        | COPcyc            | -              |                |
| Degradation co-efficient (**)                                               | Cdh               | 0.9            |      | Heating water operating limit temperature                                          | WTOL              | 60             | ٥              |
| Power consumption in modes other than ac                                    | tive mode         |                |      | Supplementary heater                                                               |                   |                |                |
| Off mode                                                                    | Poff              | 0.009          | kW   | Detect heat quitaut (**)                                                           |                   |                | Γ.             |
| Standby mode                                                                | Psb               | 0.009          | kW   | Rated heat output (**)                                                             | Psup              | 0.9            | k'             |
| Thermostat-off mode                                                         | Pto               | 0.015          | kW   | Type of energy input                                                               | EI.               | . ( ( )        |                |
| Crankcase heater mode                                                       | Pck               | 0.000          | kW   | Type of energy input                                                               | Elec              | ctrical Heatin | g              |
| Other items                                                                 |                   |                |      |                                                                                    |                   |                |                |
| Capacity control                                                            |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 6150           | m <sup>3</sup> |
| Sound power level, indoors/outdoors                                         | L <sub>WA</sub>   | -/68           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -              | m <sup>3</sup> |
| Annual energy consumption                                                   | Q <sub>HE</sub>   | 8164           | kWh  | heat exchanger                                                                     |                   |                |                |
| For heat pump combination heater:                                           |                   |                |      |                                                                                    |                   |                |                |
| Declared load profile                                                       |                   | -              |      | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -              | ,              |
| Daily electricity consumption                                               | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -              | k'             |
| Annual electricity consumption                                              | AEC               | -              | kWh  | Annual fuel consumption                                                            | AFC               | -              | (              |
| Contact details                                                             |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                   |                   |                |                |

|                                                                        |                   |                  |           | parameters                                                                         |                   |                 |                   |
|------------------------------------------------------------------------|-------------------|------------------|-----------|------------------------------------------------------------------------------------|-------------------|-----------------|-------------------|
| Model(s):                                                              |                   |                  |           | MHP12RP24P3MI                                                                      |                   |                 |                   |
| Air-to-water heat pump:                                                |                   |                  |           | YES                                                                                |                   |                 |                   |
| Water-to-water heat pump:                                              |                   |                  |           | NO                                                                                 |                   |                 |                   |
| Brine-to-water heat pump:                                              |                   |                  |           | NO                                                                                 |                   |                 |                   |
| Low-temperature heat pump:                                             |                   |                  |           | NO                                                                                 |                   |                 |                   |
| Equipped with a supplementary heater                                   | er:               |                  |           | NO                                                                                 |                   |                 |                   |
| Heat pump combination heater:                                          |                   |                  |           | NO                                                                                 |                   |                 |                   |
| Declared climate condition:                                            |                   |                  |           | COLDER                                                                             |                   |                 |                   |
| Parameters are declared for medium-                                    | temperature       | application      | -         |                                                                                    |                   |                 |                   |
| Item                                                                   | Symbol            | Value            | Unit      | Item                                                                               | Symbol            | Value           | Unit              |
| Rated heat output (*)                                                  | Prated            | 12.4             | kW        | Seasonal space heating energy efficiency                                           | ηs                | 96              | %                 |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor tem     | perature 20 °C   | ;         | Declared coefficient of performance or primindoor temperature 20 °C and outdoor te | ary energy ra     |                 | ad at             |
| Tj = -7℃                                                               | Pdh               | 7.3              | kW        | Tj = -7 °C                                                                         | COPd              | 2.27            | -                 |
| Tj = 2 °C                                                              | Pdh               | 4.5              | kW        | Tj = 2℃                                                                            | COPd              | 2.90            | -                 |
| Tj = 7˚C                                                               | Pdh               | 2.9              | kW        | Tj = 7℃                                                                            | COPd              | 3.96            | -                 |
| Tj = 12℃                                                               | Pdh               | 1.4              | kW        | Tj = 12°C                                                                          | COPd              | 3.22            | -                 |
| Tj = bivalent temperature                                              | Pdh               | 10.1             | kW        | Tj = bivalent temperature                                                          | COPd              | 1.78            | -                 |
| Tj = operating limit                                                   | Pdh               | 7.7              | kW        | Tj = operating limit                                                               | COPd              | 1.27            | -                 |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | 10.1             | kW        | For air-to-water heat pumps: Tj = -15 °C                                           | COPd              | 1.78            | -                 |
| Bivalent temperature                                                   | Tbiv              | -15              | °C        | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | -18             | °C                |
| Cycling interval capacity for heating                                  | Pcych             | -                | kW        | Cycling interval efficiency                                                        | COPcyc            | -               | -                 |
| Degradation co-efficient (**)                                          | Cdh               | 0.9              |           | Heating water operating limit temperature                                          | WTOL              | 44              | °C                |
| Power consumption in modes other than ac                               | ctive mode        |                  |           | Supplementary heater                                                               |                   |                 |                   |
| Off mode                                                               | Poff              | 0.009            | kW        | Rated heat output (**)                                                             | Psup              | 0.0             |                   |
| Standby mode                                                           | Psb               | 0.009            | kW        | Nated Heat Output ( )                                                              | r sup             | 6.8             | kW                |
| Thermostat-off mode                                                    | Pto               | 0.015            | kW        | Type of energy input                                                               | Гю                | atrical Heatin  | ~                 |
| Crankcase heater mode                                                  | Pck               | 0.000            | kW        | Type of chargy input                                                               | Ele               | ctrical Heating | y<br>             |
| Other items                                                            |                   |                  |           |                                                                                    |                   |                 |                   |
| Capacity control                                                       |                   | variable         |           | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 6150            | m³/h              |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/68             | dB        | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -               | m <sup>3</sup> /h |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 12299            | kWh       | heat exchanger                                                                     |                   |                 |                   |
| For heat pump combination heater:                                      |                   |                  |           |                                                                                    |                   |                 |                   |
| Declared load profile                                                  |                   | -                |           | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -               | %                 |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -                | kWh       | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -               | kWl               |
| Annual electricity consumption                                         | AEC               | -                | kWh       | Annual fuel consumption                                                            | AFC               | -               | GJ                |
| Contact details                                                        | AMG SPA           | √ia delle Arti e | dei Mesti | eri,1/3 San Vito di Leguzzano (VI) Italia                                          |                   |                 |                   |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

|                                                                          |                   | Tech        | nical | parameters                                                                         |                   |                   |                   |
|--------------------------------------------------------------------------|-------------------|-------------|-------|------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| Model(s):                                                                |                   |             |       | MHP12RP24P3MI                                                                      |                   |                   |                   |
| Air-to-water heat pump:                                                  |                   |             |       | YES                                                                                |                   |                   |                   |
| Water-to-water heat pump:                                                |                   |             |       | NO                                                                                 |                   |                   |                   |
| Brine-to-water heat pump:                                                |                   |             |       | NO                                                                                 |                   |                   |                   |
| Low-temperature heat pump:                                               |                   |             |       | NO                                                                                 |                   |                   |                   |
| Equipped with a supplementary heate                                      | r:                |             |       | NO                                                                                 |                   |                   |                   |
| Heat pump combination heater:                                            |                   |             |       | NO                                                                                 |                   |                   |                   |
| Declared climate condition:                                              |                   |             |       | WARMER                                                                             |                   |                   |                   |
| Parameters are declared for medium-                                      | temperature       | application |       |                                                                                    |                   |                   |                   |
| Item                                                                     | Symbol            | Value       | Unit  | Item                                                                               | Symbol            | Value             | Uni               |
| Rated heat output (*)                                                    | Prated            | 11.8        | kW    | Seasonal space heating energy efficiency                                           | ηs                | 148               | %                 |
| Declared capacity for heating for part load a and outdoor temperature Tj |                   |             | Ь——   | Declared coefficient of performance or primindoor temperature 20 °C and outdoor te | ary energy ra     | itio for part lo  |                   |
| Tj = -7℃                                                                 | Pdh               | -           | kW    | Tj = -7°C                                                                          | COPd              | -                 | -                 |
| Tj = 2 °C                                                                | Pdh               | 11.9        | kW    | Tj = 2 °C                                                                          | COPd              | 2.18              | -                 |
| Tj = 7 ℃                                                                 | Pdh               | 7.6         | kW    | Tj = 7℃                                                                            | COPd              | 3.08              | -                 |
| Tj = 12 °C                                                               | Pdh               | 3.5         | kW    | Tj = 12℃                                                                           | COPd              | 4.94              | -                 |
| Tj = bivalent temperature                                                | Pdh               | 7.6         | kW    | Tj = bivalent temperature                                                          | COPd              | 3.08              | -                 |
| Tj = operating limit                                                     | Pdh               | 11.9        | kW    | Tj = operating limit                                                               | COPd              | 2.18              | -                 |
| For air-to-water heat pumps: Tj = -15℃                                   | Pdh               | -           | kW    | For air-to-water heat pumps: Tj = -15 °C                                           | COPd              | -                 | -                 |
| Bivalent temperature                                                     | Tbiv              | 7           | °C    | For air-to-water heat pumps:<br>Operation limit temperature                        | TOL               | 2                 | °C                |
| Cycling interval capacity for heating                                    | Pcych             | -           | kW    | Cycling interval efficiency                                                        | COPcyc            | -                 | -                 |
| Degradation co-efficient (**)                                            | Cdh               | 0.9         |       | Heating water operating limit temperature                                          | WTOL              | 60                | °C                |
| Power consumption in modes other than ac                                 | tive mode         |             |       | Supplementary heater                                                               |                   |                   |                   |
| Off mode                                                                 | Poff              | 0.009       | kW    | Rated heat output (**)                                                             | P <sub>sup</sub>  | 0.0               | kW                |
| Standby mode                                                             | Psb               | 0.009       | kW    | Nated Heat Output ( )                                                              | 1 Sup             | 0.0               | KVV               |
| Thermostat-off mode                                                      | Pto               | 0.015       | kW    | Type of energy input                                                               | Elec              | ctrical Heating   | a                 |
| Crankcase heater mode                                                    | Pck               | 0.000       | kW    | 37 03 1                                                                            | Lie               | - Circai i leatin | 9                 |
| Other items                                                              |                   |             |       |                                                                                    |                   |                   |                   |
| Capacity control                                                         |                   | variable    |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                      | -                 | 6150              | m³/ł              |
| Sound power level, indoors/outdoors                                      | L <sub>WA</sub>   | -/68        | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor | -                 | -                 | m <sup>3</sup> /l |
| Annual energy consumption                                                | Q <sub>HE</sub>   | 4207        | kWh   | heat exchanger                                                                     |                   |                   |                   |
| For heat pump combination heater:                                        |                   |             |       |                                                                                    |                   |                   |                   |
| Declared load profile                                                    |                   | -           |       | Water heating energy efficiency                                                    | η <sub>wh</sub>   | -                 | %                 |
| Daily electricity consumption                                            | Q <sub>clec</sub> | -           | kWh   | Daily fuel consumption                                                             | Q <sub>fuel</sub> | -                 | kW                |
| Annual electricity consumption                                           | AEC               | -           | kWh   | Annual fuel consumption                                                            | AFC               | -                 | G.                |
| Contact details                                                          |                   |             |       | eri,1/3 San Vito di Leguzzano (VI) Italia                                          |                   |                   |                   |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Water-to-water heat pump:   NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Model(s):                                                              |                   |                |            | MHP14RP24P3MI                             |                   |                |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------|----------------|------------|-------------------------------------------|-------------------|----------------|------------------|
| Brine-to-water heat pump:  NO  Low-temperature heat pump:  Heat pump combination heater:  NO  Declared climate condition:  Rarde heat output (*)  Prated  1.8. W//  Rarde heat output (*)  Prated  1.8. W//  1.9 - 7C  Peth  1 | Air-to-water heat pump:                                                |                   |                |            | YES                                       |                   |                |                  |
| Low-temperature heat pump:   NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Water-to-water heat pump:                                              |                   |                |            | NO                                        |                   |                |                  |
| Equipped with a supplementary heater:  NO  Declared climate condition:  AVERAGE  Parameters are declared for medium-temperature application.  Item  Symbol Value Unit Asked heat output (*)  Prated 13.8 MW  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 71  17 = 7°C Peth 7.8 MW  17 = 7°C Poth 7.8 MW  17 = 12°C COPd 3.18  18 = 17°C COPd 3.18  19 = 12°C COPd 3.18  19  | Brine-to-water heat pump:                                              |                   |                |            | NO                                        |                   |                |                  |
| Heat pump combination heater:  Declared climate condition:  NO  AVERAGE  Parameters are declared for medium-temperature application.  Item  Symbol Value Unit Rated heat output (*) Prated 13.8 kW  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 in 17 = 7.0 c Peth 12.2 kW  IT = 2.0 Peth 7.8 kW  IT = 2.0 Peth 5.2 kW  IT = 12.0 Peth 5.2 kW  IT = operating limit Peth 1.7 kW  IT = operati | Low-temperature heat pump:                                             |                   |                |            | NO                                        |                   |                |                  |
| Declared climate condition:  Parameters are declared for medium-temperature application.    Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Equipped with a supplementary heate                                    | er:               |                |            | NO                                        |                   |                |                  |
| Parameters are declared for medium-temperature application.  Item Symbol Value Unit Rated heat output (*) Prated 13.8 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj 12 -7°C Pdh 12.2 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj 11 -7°C C Pdh 12.2 kW Declared coefficient of performance or primary energy ratio for part load at indoor temperature Z0 °C and outdoor temperature Tj 11 -7°C C OPd 2.05 Tj = 2°C Pdh 7.8 kW Declared coefficient of performance or primary energy ratio for part load at indoor temperature Z0 °C and outdoor temperature Tj 11 -7°C C OPd 3.18 Tj = 7°C C OPd 3.18 Tj = 7°C C OPd 3.18 Tj = 7°C C OPd 4.29 Tj = 12°C C OPd 5.14 Tj = 12 | Heat pump combination heater:                                          |                   |                |            | NO                                        |                   |                |                  |
| tem Symbol Value Unit Rated heat output (*) Prated 13.8 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 C Pdh 12.2 kW Tj = 2 C Peth 7.8 kW Tj = 7 C COPd 2.65 Tj = 2 C COPd 3.18 Tj = 7 C COPd 4.29 Tj = 12 C COPd 4.20 Tj = 12 C COPd 5.14 Tj = bivalent temperature Di Tj = -15 C COPd 1.74 Tj = bivalent temperature COPd 1.74 Ts = bivalent temperature Tj Tbw -7 C COPd 1.74 Ts = car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj =  | Declared climate condition:                                            |                   |                |            | AVERAGE                                   |                   |                |                  |
| tem Symbol Value Unit Rated heat output (*) Prated 13.8 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 C Pdh 12.2 kW Tj = 2 C Peth 7.8 kW Tj = 7 C COPd 2.65 Tj = 2 C COPd 3.18 Tj = 7 C COPd 4.29 Tj = 12 C COPd 4.20 Tj = 12 C COPd 5.14 Tj = bivalent temperature Di Tj = -15 C COPd 1.74 Tj = bivalent temperature COPd 1.74 Ts = bivalent temperature Tj Tbw -7 C COPd 1.74 Ts = car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj = -15 C COPd 1.74 Ts - car-to-water heat pumps: Tj =  | Parameters are declared for medium-                                    | temperature       | e application  | ) <u>.</u> |                                           |                   |                |                  |
| Rated heat output (*) Prated 13.8 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1   12 kW Tij = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                   |                |            |                                           |                   |                |                  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T T T = 7 °C C OPH 2.05 T T = 7 °C C OPH 3.18 T T = 7 °C C | Item                                                                   | Symbol            | Value          | Unit       | Item                                      | Symbol            | Value          | Ur               |
| Indoor temperature Tj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rated heat output (*)                                                  | Prated            | 13.8           | kW         | Seasonal space heating energy efficiency  | ηѕ                | 128            | %                |
| Ti = 2 C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Declared capacity for heating for part load and outdoor temperature Tj | at indoor tem     | perature 20 °C |            |                                           |                   |                | ad at            |
| Tj = 7 C Pdh 5.2 kW Tj = 12 C Pdh 2.6 kW Tj = poerating limit Pdh 11.7 kW For air-to-water heat pumps: Tj = -15 C Pdh - kW Evalent temperature Tbw -7 °C Bivalent temperature Tbw -7 °C Cycling interval capacity for heating Poych - kW Degradation co-efficient (**) Cah 0.9 - Power consumption in modes other than active mode Off mode Pok 0.009 kW Thermostat-off mode Pok 0.000 kW Thermostat-off mode P | Tj = -7℃                                                               | Pdh               | 12.2           | kW         | Tj = -7°C                                 | COPd              | 2.05           | -                |
| Tj = 12 C Pdh 2.6 kW Tj = bivalent temperature Pdh 12.2 kW Tj = operating limit Pdh 11.7 kW For air-to-water heat pumps: Tj = -15 C Pdh - kW Bivalent temperature Tbiv -7 °C Cycling interval capacity for heating Pch 0.09 - Power consumption in modes other than active mode Off mode Pdb 0.026 kW Thermostat-off mode Pdb 0.026 kW Thermostat-off mode Pdb 0.026 kW Thermostat-off mode Pck 0.000 kW Thermostat-off mode Pdb 0.026 kW Thermostat-off mode Pck 0.000 kW The | Tj = 2℃                                                                | Pdh               | 7.8            | kW         | Tj = 2°C                                  | COPd              | 3.18           | -                |
| Tj = bivalent temperature Pdh 12.2 kW Tj = operating limit Pdh 11.7 kW For air-to-water heat pumps: Tj = -15 °C Pdh - kW Bivalent temperature Tbbv -7 °C Bivalent temperature Tbbv -7 °C Cycling interval capacity for heating Poych - kW Degradation co-efficient (**) Cdh 0.9 - Cycling interval capacity for heating Poych - kW Degradation co-efficient (**) Cdh 0.9 - W Degradation co-efficient (**) Cdh 0.9 - W Thermostat-off mode Pox 0.009 kW Thermostat-off mode Pox 0.000 kW Thermostat-off mode Pox 0.000 kW  Other Items Capacity control variable Sound power level, indoors/outdoors LWA -/71 dB Annual energy consumption Quez 8724 kWh  Annual energy consumption Quez 8724 kWh Annual electricity consumption AEC - kWh Annual electricity consumption AEC - kWh AMG SPA Via delle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tj = 7℃                                                                | Pdh               | 5.2            | kW         | Tj = 7℃                                   | COPd              | 4.29           | -                |
| Ti = operating limit  Poh  11.7 kW  For air-to-water heat pumps: Tj = -15 °C  Pdh  - kW  Bivalent temperature  Tobv  -7 °C  Cycling interval capacity for heating  Poych - kW  Cycling interval efficiency  Cycling interva | Tj = 12°C                                                              | Pdh               | 2.6            | kW         | Tj = 12℃                                  | COPd              | 5.14           | -                |
| For air-to-water heat pumps: Tj = -15 C Pdh - kW Bivalent temperature Tbiv -7 °C Cycling interval capacity for heating Poych - kW Degradation co-efficient (**) Cdh 0.9 - Power consumption in modes other than active mode Off mode Poir 0.009 kW Standby mode Psb 0.009 kW Thermostat-off mode Poir 0.026 kW Crankcase heater mode Pok 0.000 kW  Other items  Capacity control variable Sound power level, indoors/outdoors LwA - 771 dB Annual energy consumption Q <sub>clic</sub> - kWh Daily electricity consumption Q <sub>clic</sub> - kWh Annual electricity consumption AEC - kWh Annual electricity consumption AEC - kWh Annual electricity consumption AEC - kWh Annual delectricity consumption AEC - kWh AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tj = bivalent temperature                                              | Pdh               | 12.2           | kW         | Tj = bivalent temperature                 | COPd              | 2.05           |                  |
| Bivalent temperature  Tolv -7 °C Cycling interval capacity for heating Poych - kW Degradation co-efficient (**) Cdh 0.9 - Power consumption in modes other than active mode Off mode Pob 0.009 kW Standby mode Pob 0.009 kW Thermostat-off mode Pok 0.000 kW  Crankcase heater mode Pok 0.000 kW  Colher items  Capacity control variable Sound power level, indoors/outdoors LwA Annual energy consumption Qdec - kWh Cror heat pump combination heater:  Declared load profile - kWh Annual electricity consumption AEC - kWh Annual electricity consumption AEC - kWh Capacity Control Research and Capacity Control Research and Capacity Consumption AEC - kWh Capacit | Tj = operating limit                                                   | Pdh               | 11.7           | kW         | Tj = operating limit                      | COPd              | 1.74           |                  |
| Cycling interval capacity for heating Poych - kW Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | For air-to-water heat pumps: Tj = -15 C                                | Pdh               | -              | kW         | For air-to-water heat pumps: Tj = -15 °C  | COPd              | -              | -                |
| Degradation co-efficient (**)  Cdh  O.9  Power consumption in modes other than active mode  Off mode  Poif  O.009  RW  Standby mode  Peb  O.009  RW  Thermostat-off mode  Peb  O.000  RW  Crankcase heater mode  Capacity control  Sound power level, indoors/outdoors  Annual energy consumption  QHE  8724  RW  Annual electricity consumption  Qdec  Annual electricity consumption  AEC  AMG SPA Via delie Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia  Heating water operating limit temperature  WTOL  60  Supplementary heater  Rated heat output (**)  Psup  2.1  k  Heating water operating limit temperature  WTOL  60  Supplementary heater  Rated heat output (**)  Psup  2.1  k  Type of energy input  Electrical Heating  For air-to-water heat pumps: Rated air flow rate, outdoors  For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency  Daily fuel consumption  AFC  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bivalent temperature                                                   | Tbiv              | -7             | °C         |                                           | TOL               | -10            | ۰(               |
| Power consumption in modes other than active mode  Off mode  Port  O.009 kW Standby mode  Psb O.009 kW Thermostat-off mode  Pto O.026 kW Crankcase heater mode  Other items  Capacity control  Variable  Annual energy consumption  QhE 8724 kWh  Annual electricity consumption  AGC  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cycling interval capacity for heating                                  | Pcych             | -              | kW         | Cycling interval efficiency               | COPcyc            | -              | -                |
| Off mode    Poff   0.009   kW     Standby mode   Psb   0.009   kW     Thermostat-off mode   Pto   0.026   kW     Crankcase heater mode   Pck   0.000   kW     Other items   Capacity control   Variable     Sound power level, indoors/outdoors   LwA   -/71   dB     Annual energy consumption   QhE   8724   kWh     For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Degradation co-efficient (**)                                          | Cdh               | 0.9            |            | Heating water operating limit temperature | WTOL              | 60             | ۰                |
| Standby mode Psb 0.009 kW Thermostat-off mode Pto 0.026 kW Crankcase heater mode Pck 0.000 kW  Other items Capacity control  Sound power level, indoors/outdoors Annual energy consumption  Check 8724 kWh  For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency Daily electricity consumption  ARC - kWh  Annual electricity consumption  Rated heat output (**)  Psup Psup Psup 2.1 k  Rated heat output (**)  Type of energy input  Electrical Heating  For air-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency Daily fuel consumption  AFC - k  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Power consumption in modes other than a                                | ctive mode        |                |            | Supplementary heater                      |                   |                |                  |
| Standby mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Off mode                                                               | Poff              | 0.009          | kW         |                                           |                   |                | П                |
| Crankcase heater mode    Pek   0.000   kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Standby mode                                                           | Psb               | 0.009          | kW         | Rated heat output (**)                    | Psup              | 2.1            | k۱               |
| Crankcase heater mode     Pck     0.000     kW       Other items       Capacity control     For air-to-water heat pumps: Rated air flow rate, outdoors     - 6150     m²       Sound power level, indoors/outdoors     L <sub>WA</sub> -/71     dB       Annual energy consumption     Q <sub>HE</sub> 8724     kWh       For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Thermostat-off mode                                                    | Pto               | 0.026          | kW         | T                                         |                   |                |                  |
| Capacity control  Variable  Sound power level, indoors/outdoors  L <sub>WA</sub> -/71  dB  Annual energy consumption  Q <sub>HE</sub> 8724  kWh  For heat pump combination heater:  Declared load profile  Daily electricity consumption  Q <sub>clec</sub> Annual electricity consumption  Q <sub>clec</sub> AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Crankcase heater mode                                                  | Pck               | 0.000          | kW         | Type of energy input                      | Elec              | ctrical Heatin | g                |
| Capacity control  Variable  Sound power level, indoors/outdoors  L <sub>WA</sub> -/71  dB  Annual energy consumption  Q <sub>HE</sub> 8724  kWh  For heat pump combination heater:  Declared load profile  Daily electricity consumption  Q <sub>clec</sub> Annual electricity consumption  Q <sub>clec</sub> AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Other items                                                            |                   |                |            |                                           |                   |                |                  |
| Rated air flow rate, outdoors  Sound power level, indoors/outdoors  L <sub>WA</sub> Annual energy consumption  Q <sub>HE</sub> 8724  kWh  For heat pump combination heater:  Declared load profile  Daily electricity consumption  Q <sub>clec</sub> Annual electricity consumption  AEC  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |                   |                |            | For air-to-water heat pumps:              |                   |                | Τ                |
| Annual energy consumption  QHE 8724 kWh  Rated brine or water flow rate, outdoor heat exchanger  For heat pump combination heater:  Declared load profile  Daily electricity consumption  Qclec  Annual electricity consumption  AEC  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Capacity control                                                       |                   | variable       |            |                                           | -                 | 6150           | m <sup>3</sup> . |
| For heat pump combination heater:  Declared load profile  Daily electricity consumption  AFC  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71           | dB         | Rated brine or water flow rate, outdoor   | -                 | -              | m <sup>3</sup>   |
| Declared load profile  - Water heating energy efficiency  - Who Daily electricity consumption  Q <sub>clec</sub> - kWh Annual electricity consumption  AEC - kWh Annual fuel consumption  AFC - contact details  AMG SPA Via delle Arti e dei Mestieri, 1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Annual energy consumption                                              | Q <sub>HE</sub>   | 8724           | kWh        | neat exchanger                            |                   |                |                  |
| Daily electricity consumption  Q <sub>clec</sub> - kWh  Annual electricity consumption  AEC - kWh  Annual fuel consumption  AFC - kWh  Annual fuel consumption  AFC - content details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | For heat pump combination heater:                                      |                   |                |            |                                           |                   |                |                  |
| Annual electricity consumption AEC - kWh Annual fuel consumption AFC - General details AMG SPA Via delle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Declared load profile                                                  |                   | -              |            | Water heating energy efficiency           | η <sub>wh</sub>   | -              | (                |
| Annual electricity consumption AEC - kWh Annual fuel consumption AFC - General details AMG SPA Via delle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh        | Daily fuel consumption                    | Q <sub>fuel</sub> | -              | k۱               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Annual electricity consumption                                         | +                 | -              | kWh        | Annual fuel consumption                   | AFC               | -              | (                |
| Tel. 0445/519933 - Mail info@mitsuiairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Contact details                                                        |                   |                |            |                                           |                   |                |                  |

| lodel(s): ir-to-water heat pump: /ater-to-water heat pump: rine-to-water heat pump: ow-temperature heat pump: quipped with a supplementary heate eat pump combination heater: eclared climate condition: arameters are declared for medium- | r:                |                |      | MHP14RP24P3MI<br>YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                 |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-------------------|
| /ater-to-water heat pump: rine-to-water heat pump: pw-temperature heat pump: quipped with a supplementary heate eat pump combination heater: eclared climate condition:                                                                     | r:                |                |      | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                 |                   |
| rine-to-water heat pump:  pw-temperature heat pump:  quipped with a supplementary heate  eat pump combination heater:  eclared climate condition:                                                                                           | r:                |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                   |
| ow-temperature heat pump: quipped with a supplementary heate eat pump combination heater: eclared climate condition:                                                                                                                        | r:                |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                   |
| quipped with a supplementary heate eat pump combination heater: eclared climate condition:                                                                                                                                                  | r:                |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                   |
| eat pump combination heater: eclared climate condition:                                                                                                                                                                                     | r:                |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                   |
| eclared climate condition:                                                                                                                                                                                                                  |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                   |
|                                                                                                                                                                                                                                             |                   |                |      | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                   |
| arameters are declared for medium-                                                                                                                                                                                                          |                   |                |      | COLDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                 |                   |
|                                                                                                                                                                                                                                             | temperature       | application    | •    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                   |
| em                                                                                                                                                                                                                                          | Symbol            | Value          | Unit | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbol            | Value           | Uni               |
| ated heat output (*)                                                                                                                                                                                                                        | Prated            | 14.3           | kW   | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηs                | 102             | %                 |
| eclared capacity for heating for part load and outdoor temperature Tj                                                                                                                                                                       | at indoor temp    | perature 20 °C | ;    | Declared coefficient of performance or primindoor temperature 20 °C and outdoor temperature 20 ° | ary energy ra     | tio for part lo | ad at             |
| =-7°C                                                                                                                                                                                                                                       | Pdh               | 8.9            | kW   | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 2.35            | _                 |
| = 2°C                                                                                                                                                                                                                                       | Pdh               | 5.3            | kW   | Tj = 2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 3.16            | -                 |
| = <b>7</b> ℃                                                                                                                                                                                                                                | Pdh               | 3.3            | kW   | Tj = 7℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 4.10            | -                 |
| = 12℃                                                                                                                                                                                                                                       | Pdh               | 1.4            | kW   | Tj = 12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 3.20            | -                 |
| = bivalent temperature                                                                                                                                                                                                                      | Pdh               | 11.3           | kW   | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 1.85            | -                 |
| = operating limit                                                                                                                                                                                                                           | Pdh               | 7.7            | kW   | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 1.26            | -                 |
| or air-to-water heat pumps: Tj = -15 °C                                                                                                                                                                                                     | Pdh               | 10.8           | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 1.77            | -                 |
| ivalent temperature                                                                                                                                                                                                                         | Tbiv              | -14            | °C   | For air-to-water heat pumps: Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOL               | -18             | °C                |
| ycling interval capacity for heating                                                                                                                                                                                                        | Pcych             | -              | kW   | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -               | -                 |
| egradation co-efficient (**)                                                                                                                                                                                                                | Cdh               | 0.9            |      | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 44              | °C                |
| ower consumption in modes other than ac                                                                                                                                                                                                     | tive mode         |                |      | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                 |                   |
| ff mode                                                                                                                                                                                                                                     | Poff              | 0.009          | kW   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                 |                 |                   |
| tandby mode                                                                                                                                                                                                                                 | Psb               | 0.009          | kW   | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 8.7             | kW                |
| nermostat-off mode                                                                                                                                                                                                                          | Pto               | 0.026          | kW   | Town of account insula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                 |                   |
| rankcase heater mode                                                                                                                                                                                                                        | Pck               | 0.000          | kW   | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Elec              | ctrical Heating | g                 |
| Other items                                                                                                                                                                                                                                 |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                   |
| Capacity control                                                                                                                                                                                                                            |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 6150            | m <sup>3</sup> /l |
| ound power level, indoors/outdoors                                                                                                                                                                                                          | L <sub>WA</sub>   | -/71           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -               | m <sup>3</sup> /  |
| nnual energy consumption                                                                                                                                                                                                                    | Q <sub>HE</sub>   | 13449          | kWh  | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                 |                   |
| or heat pump combination heater:                                                                                                                                                                                                            |                   |                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                   |
| eclared load profile                                                                                                                                                                                                                        |                   | -              |      | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | η <sub>wh</sub>   | -               | %                 |
| aily electricity consumption                                                                                                                                                                                                                | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -               | kW                |
| nnual electricity consumption                                                                                                                                                                                                               | AEC               | -              | kWh  | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -               | G.                |
| ontact details                                                                                                                                                                                                                              |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                 |                   |

| Model(s):                                                              |                   |                |      | MHP14RP24P3MI                                                                        |                   |                |                   |
|------------------------------------------------------------------------|-------------------|----------------|------|--------------------------------------------------------------------------------------|-------------------|----------------|-------------------|
| Air-to-water heat pump:                                                |                   |                |      | YES                                                                                  |                   |                |                   |
| Water-to-water heat pump:                                              |                   |                |      | NO                                                                                   |                   |                |                   |
| Brine-to-water heat pump:                                              |                   |                |      | NO                                                                                   |                   |                |                   |
| Low-temperature heat pump:                                             |                   |                |      | NO                                                                                   |                   |                |                   |
| Equipped with a supplementary heate                                    | er:               |                |      | NO                                                                                   |                   |                |                   |
| Heat pump combination heater:                                          |                   |                |      | NO                                                                                   |                   |                |                   |
| Declared climate condition:                                            |                   |                |      | WARMER                                                                               |                   |                |                   |
| Parameters are declared for medium                                     | temperature       | application    | 1.   |                                                                                      |                   |                |                   |
|                                                                        | •                 | •••            |      |                                                                                      |                   |                |                   |
| Item                                                                   | Symbol            | Value          | Unit | Item                                                                                 | Symbol            | Value          | Uni               |
| Rated heat output (*)                                                  | Prated            | 13.9           | kW   | Seasonal space heating energy efficiency                                             | ηs                | 154            | %                 |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor tem     | perature 20 °C |      | Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell |                   |                | ad at             |
| Tj = -7℃                                                               | Pdh               | -              | kW   | Tj = -7 °C                                                                           | COPd              | -              | -                 |
| Tj = 2 °C                                                              | Pdh               | 13.8           | kW   | Tj = 2℃                                                                              | COPd              | 2.17           | -                 |
| Tj = 7 °C                                                              | Pdh               | 9.0            | kW   | Tj = 7 °C                                                                            | COPd              | 3.18           | -                 |
| Tj = 12℃                                                               | Pdh               | 4.2            | kW   | Tj = 12℃                                                                             | COPd              | 5.26           | -                 |
| Tj = bivalent temperature                                              | Pdh               | 9.0            | kW   | Tj = bivalent temperature                                                            | COPd              | 3.18           | -                 |
| Tj = operating limit                                                   | Pdh               | 13.8           | kW   | Tj = operating limit                                                                 | COPd              | 2.17           | -                 |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | -              | kW   | For air-to-water heat pumps: Tj = -15 °C                                             | COPd              | -              | -                 |
| Bivalent temperature                                                   | Tbiv              | 7              | °C   | For air-to-water heat pumps: Operation limit temperature                             | TOL               | 2              | °C                |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW   | Cycling interval efficiency                                                          | COPcyc            | -              | -                 |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |      | Heating water operating limit temperature                                            | WTOL              | 60             | °C                |
| Power consumption in modes other than a                                | ctive mode        |                |      | Supplementary heater                                                                 |                   |                |                   |
| Off mode                                                               | Poff              | 0.009          | kW   | Detect head autout (**)                                                              | _                 |                |                   |
| Standby mode                                                           | Psb               | 0.009          | kW   | Rated heat output (**)                                                               | Psup              | 0.1            | kW                |
| Thermostat-off mode                                                    | Pto               | 0.026          | kW   | Type of energy input                                                                 |                   |                |                   |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW   | Type of energy input                                                                 | Elec              | ctrical Heatin | g                 |
| Other items                                                            |                   |                |      |                                                                                      |                   |                |                   |
| Capacity control                                                       |                   | variable       |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                        | -                 | 6150           | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71           | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor   | -                 | -              | m <sup>3</sup> /ł |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 4746           | kWh  | heat exchanger                                                                       |                   |                |                   |
| For heat pump combination heater:                                      |                   |                |      |                                                                                      |                   |                |                   |
| Declared load profile                                                  |                   | -              |      | Water heating energy efficiency                                                      | $\eta_{wh}$       | -              | %                 |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh  | Daily fuel consumption                                                               | Q <sub>fuel</sub> | -              | kW                |
| Annual electricity consumption                                         | AEC               | -              | kWh  | Annual fuel consumption                                                              | AFC               | -              | G.                |
| Contact details                                                        |                   |                |      | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                     |                   |                |                   |

|                                                                                                 |                          |               |       | parameters                                                                                                                                   |                   |                |                   |
|-------------------------------------------------------------------------------------------------|--------------------------|---------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|-------------------|
| Model(s):                                                                                       |                          |               |       | MHP16RP24P3MI                                                                                                                                |                   |                |                   |
| Air-to-water heat pump:                                                                         |                          |               |       | YES                                                                                                                                          |                   |                |                   |
| Water-to-water heat pump:                                                                       |                          |               |       | NO                                                                                                                                           |                   |                |                   |
| Brine-to-water heat pump:                                                                       |                          |               |       | NO                                                                                                                                           |                   |                |                   |
| Low-temperature heat pump:                                                                      |                          |               |       | NO                                                                                                                                           |                   |                |                   |
| Equipped with a supplementary heate                                                             | r:                       |               |       | NO                                                                                                                                           |                   |                |                   |
| Heat pump combination heater:                                                                   |                          |               |       | NO                                                                                                                                           |                   |                |                   |
| Declared climate condition:                                                                     |                          |               |       | AVERAGE                                                                                                                                      |                   |                |                   |
| Parameters are declared for medium-                                                             | emperature               | application   | l     |                                                                                                                                              |                   |                |                   |
|                                                                                                 | 0                        | Value         | Lloit | Hom                                                                                                                                          | Cymbol            | Value          | 11                |
| Item                                                                                            | Symbol                   | Value<br>14.6 | Unit  | Item                                                                                                                                         | Symbol            | Value          | Unit              |
| Rated heat output (*)  Declared capacity for heating for part load a and outdoor temperature Ti | Prated<br>at indoor temp |               | kW    | Seasonal space heating energy efficiency  Declared coefficient of performance or primindoor temperature 20 °C and outdoor temperature 20 °C. |                   |                | %<br>pad at       |
| Tj = -7℃                                                                                        | Pdh                      | 12.9          | kW    | Tj = -7°C                                                                                                                                    | COPd              | 2.04           | _                 |
| Tj = 2°C                                                                                        | Pdh                      | 8.3           | kW    | Tj = 2°C                                                                                                                                     | COPd              | 3.21           | -                 |
| Tj = 7°C                                                                                        | Pdh                      | 5.5           | kW    | Tj = 7°C                                                                                                                                     | COPd              | 4.32           | -                 |
| Tj = 12°C                                                                                       | Pdh                      | 2.6           | kW    | Tj = 12°C                                                                                                                                    | COPd              | 5.12           | -                 |
| Tj = bivalent temperature                                                                       | Pdh                      | 12.9          | kW    | Tj = bivalent temperature                                                                                                                    | COPd              | 2.04           | -                 |
| Tj = operating limit                                                                            | Pdh                      | 11.2          | kW    | Tj = operating limit                                                                                                                         | COPd              | 1.65           | -                 |
| For air-to-water heat pumps: Tj = -15 °C                                                        | Pdh                      | -             | kW    | For air-to-water heat pumps: Tj = -15 °C                                                                                                     | COPd              | -              | -                 |
| Bivalent temperature                                                                            | Tbiv                     | -7            | °C    | For air-to-water heat pumps:<br>Operation limit temperature                                                                                  | TOL               | -10            | °C                |
| Cycling interval capacity for heating                                                           | Pcych                    | -             | kW    | Cycling interval efficiency                                                                                                                  | COPcyc            | -              | -                 |
| Degradation co-efficient (**)                                                                   | Cdh                      | 0.9           |       | Heating water operating limit temperature                                                                                                    | WTOL              | 60             | °C                |
| Power consumption in modes other than ac                                                        | tive mode                |               |       | Supplementary heater                                                                                                                         |                   |                |                   |
| Off mode                                                                                        | Poff                     | 0.009         | kW    | Pated heat output (**)                                                                                                                       | Paus              | 2.4            | 1.00              |
| Standby mode                                                                                    | Psb                      | 0.009         | kW    | Rated heat output (**)                                                                                                                       | Psup              | 3.4            | kW                |
| Thermostat-off mode                                                                             | Pto                      | 0.041         | kW    | Type of energy input                                                                                                                         | Flo               | ctrical Heatin |                   |
| Crankcase heater mode                                                                           | Pck                      | 0.000         | kW    | Type or one-gy impor                                                                                                                         | Elec              |                | y                 |
| Other items                                                                                     |                          |               |       |                                                                                                                                              |                   |                |                   |
| Capacity control                                                                                |                          | variable      |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                | -                 | 6150           | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                                             | L <sub>WA</sub>          | -/71          | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                           | -                 | -              | m³/h              |
| Annual energy consumption                                                                       | Q <sub>HE</sub>          | 9216          | kWh   | heat exchanger                                                                                                                               |                   |                |                   |
| For heat pump combination heater:                                                               |                          |               |       |                                                                                                                                              |                   |                |                   |
| Declared load profile                                                                           |                          | -             |       | Water heating energy efficiency                                                                                                              | η <sub>wh</sub>   | -              | %                 |
| Daily electricity consumption                                                                   | Q <sub>clec</sub>        | -             | kWh   | Daily fuel consumption                                                                                                                       | Q <sub>fuel</sub> | -              | kW                |
| Annual electricity consumption                                                                  | AEC                      | -             | kWh   | Annual fuel consumption                                                                                                                      | AFC               | -              | GJ                |
|                                                                                                 |                          |               |       | <u> </u>                                                                                                                                     |                   |                |                   |

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

| Model(s):                                                              |                   |                |       | MHP16RP24P3MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                |                   |
|------------------------------------------------------------------------|-------------------|----------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|-------------------|
| Air-to-water heat pump:                                                |                   |                |       | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                |                   |
| Water-to-water heat pump:                                              |                   |                |       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |                   |
| Brine-to-water heat pump:                                              |                   |                |       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |                   |
| Low-temperature heat pump:                                             |                   |                |       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |                   |
| Equipped with a supplementary heate                                    | er:               |                |       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |                   |
| Heat pump combination heater:                                          |                   |                |       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |                   |
| Declared climate condition:                                            |                   |                |       | COLDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                |                   |
| Parameters are declared for medium                                     | -temperature      | application    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |                   |
|                                                                        |                   |                | 11-26 | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | O. mahad          | Value          |                   |
| Item                                                                   | Symbol            | Value          | Unit  | Item Constitution of the c | Symbol            | Value          | Unit              |
| Rated heat output (*)                                                  | Prated            | 15.2           | kW    | Seasonal space heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ηѕ                | 106            | %                 |
| Declared capacity for heating for part load and outdoor temperature Tj | at indoor temp    | perature 20 °C | ,     | Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                | ad at             |
| Tj = -7℃                                                               | Pdh               | 9.6            | kW    | Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 2.38           | -                 |
| Tj = 2°C                                                               | Pdh               | 5.6            | kW    | Tj = 2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 3.31           | -                 |
| Tj = 7 °C                                                              | Pdh               | 4.0            | kW    | Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 4.47           | -                 |
| Tj = 12℃                                                               | Pdh               | 1.9            | kW    | Tj = 12℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd              | 4.05           | -                 |
| Tj = bivalent temperature                                              | Pdh               | 11.6           | kW    | Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd              | 1.88           | -                 |
| Tj = operating limit                                                   | Pdh               | 6.7            | kW    | Tj = operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd              | 1.10           | -                 |
| For air-to-water heat pumps: Tj = -15 °C                               | Pdh               | 10.7           | kW    | For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd              | 1.76           | -                 |
| Bivalent temperature                                                   | Tbiv              | -13            | °C    | For air-to-water heat pumps:<br>Operation limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TOL               | -18            | °C                |
| Cycling interval capacity for heating                                  | Pcych             | -              | kW    | Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COPcyc            | -              | -                 |
| Degradation co-efficient (**)                                          | Cdh               | 0.9            |       | Heating water operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTOL              | 44             | °C                |
| Power consumption in modes other than a                                | ctive mode        |                |       | Supplementary heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |                   |
| Off mode                                                               | Poff              | 0.009          | kW    | Detect head autout (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                |                   |
| Standby mode                                                           | Psb               | 0.009          | kW    | Rated heat output (**)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psup              | 9.6            | kW                |
| Thermostat-off mode                                                    | Pto               | 0.041          | kW    | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |                   |
| Crankcase heater mode                                                  | Pck               | 0.000          | kW    | Type or energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Elec              | ctrical Heatin | .g<br>            |
| Other items                                                            |                   |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |                   |
| Capacity control                                                       |                   | variable       |       | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | 6150           | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                    | L <sub>WA</sub>   | -/71           | dB    | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -              | m³/h              |
| Annual energy consumption                                              | Q <sub>HE</sub>   | 13768          | kWh   | heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                |                   |
| For heat pump combination heater:                                      |                   |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |                   |
| Declared load profile                                                  |                   | -              |       | Water heating energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\eta_{wh}$       | -              | %                 |
| Daily electricity consumption                                          | Q <sub>clec</sub> | -              | kWh   | Daily fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q <sub>fuel</sub> | -              | kW                |
| Annual electricity consumption                                         | AEC               | -              | kWh   | Annual fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AFC               | -              | GJ                |
| Contact details                                                        |                   |                |       | eri,1/3 San Vito di Leguzzano (VI) Italia<br>iairconditioner.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                |                   |

| Model(s):                                   |                                                                                                                                   |               |      | MHP16RP24P3MI                                                                                                                    |                   |       |                   |  |  |  |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------------------|--|--|--|
| Air-to-water heat pump:                     | YES                                                                                                                               |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Water-to-water heat pump:                   | NO                                                                                                                                |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Brine-to-water heat pump:                   | NO                                                                                                                                |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Low-temperature heat pump:                  | NO                                                                                                                                |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Equipped with a supplementary heat          | NO                                                                                                                                |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Heat pump combination heater:               | NO                                                                                                                                |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Declared climate condition:                 | WARMER                                                                                                                            |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Parameters are declared for medium          | -temperature                                                                                                                      | application   | ١.   |                                                                                                                                  |                   |       |                   |  |  |  |
| Item                                        | Symbol                                                                                                                            | Value         | Unit | Item                                                                                                                             | Symbol            | Value | Unit              |  |  |  |
| Rated heat output (*)                       | Prated                                                                                                                            | 15.7          | kW   | Seasonal space heating energy efficiency                                                                                         |                   |       | %                 |  |  |  |
| Declared capacity for heating for part load |                                                                                                                                   |               | _    |                                                                                                                                  | 101               |       |                   |  |  |  |
| and outdoor temperature Tj                  | at illuoor terri                                                                                                                  | Derature 20 C |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |                   |  |  |  |
| Tj = -7℃                                    | Pdh                                                                                                                               | -             | kW   | Tj = -7°C                                                                                                                        | COPd              | -     | -                 |  |  |  |
| Tj = 2 °C                                   | Pdh                                                                                                                               | 14.1          | kW   | Tj = 2 ℃                                                                                                                         | COPd              | 2.14  | -                 |  |  |  |
| Tj = 7 °C                                   | Pdh                                                                                                                               | 10.1          | kW   | Tj = 7 °C                                                                                                                        | COPd              | 3.22  | -                 |  |  |  |
| Tj = 12 °C                                  | Pdh                                                                                                                               | 4.8           | kW   | Tj = 12℃                                                                                                                         | COPd              | 5.46  | -                 |  |  |  |
| Tj = bivalent temperature                   | Pdh                                                                                                                               | 10.1          | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 3.22  | -                 |  |  |  |
| Tj = operating limit                        | Pdh                                                                                                                               | 14.1          | kW   | Tj = operating limit                                                                                                             | COPd              | 2.14  | -                 |  |  |  |
| For air-to-water heat pumps: Tj = -15 °C    | Pdh                                                                                                                               | -             | kW   | For air-to-water heat pumps: Tj = -15 °C                                                                                         | COPd              | -     | -                 |  |  |  |
| Bivalent temperature                        | Tbiv                                                                                                                              | 7             | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | 2     | °C                |  |  |  |
| Cycling interval capacity for heating       | Pcych                                                                                                                             | -             | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | -     | -                 |  |  |  |
| Degradation co-efficient (**)               | Cdh                                                                                                                               | 0.9           |      | Heating water operating limit temperature                                                                                        | WTOL 60           |       | °C                |  |  |  |
| Power consumption in modes other than a     | ctive mode                                                                                                                        |               |      | Supplementary heater                                                                                                             |                   |       |                   |  |  |  |
| Off mode                                    | Poff                                                                                                                              | 0.009         | kW   | Dated heat quitaut (**)                                                                                                          | Psup              | 1.6   | kW                |  |  |  |
| Standby mode                                | Psb                                                                                                                               | 0.009         | kW   | Rated heat output (**)                                                                                                           | Psup              |       |                   |  |  |  |
| Thermostat-off mode                         | Pto                                                                                                                               | 0.041         | kW   | Type of energy input                                                                                                             | FI                |       |                   |  |  |  |
| Crankcase heater mode                       | Pck                                                                                                                               | 0.000         | kW   | Type of energy input Electrical Heating                                                                                          |                   |       | g<br>             |  |  |  |
| Other items                                 |                                                                                                                                   |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Capacity control                            |                                                                                                                                   | variable      |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                    | -                 | 6150  | m³/h              |  |  |  |
| Sound power level, indoors/outdoors         | L <sub>WA</sub>                                                                                                                   | -/71          | dB   | For water-or brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor                                               | -                 | -     | m <sup>3</sup> /h |  |  |  |
| Annual energy consumption                   | Q <sub>HE</sub>                                                                                                                   | 5367          | kWh  | heat exchanger                                                                                                                   |                   |       |                   |  |  |  |
| For heat pump combination heater:           |                                                                                                                                   |               |      |                                                                                                                                  |                   |       |                   |  |  |  |
| Declared load profile                       |                                                                                                                                   | -             |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | -     | %                 |  |  |  |
| Daily electricity consumption               | Q <sub>clec</sub>                                                                                                                 | -             | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | -     | kW                |  |  |  |
| Annual electricity consumption              | AEC                                                                                                                               | -             | kWh  | Annual fuel consumption                                                                                                          | AFC               | -     | GJ                |  |  |  |
| Contact details                             | AMG SPA Via delle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia Tel. 0445/519933 - Mail info@mitsuiairconditioner.com |               |      |                                                                                                                                  |                   |       |                   |  |  |  |

## Information requirements for comfort chillers

| Model(s):                                                              |                      |                   | MHP5RP24MI                                                                                               |                                                                                                  |                   |              |                   |  |  |
|------------------------------------------------------------------------|----------------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------|--------------|-------------------|--|--|
| Outdoor side heat exchanger of chiller:                                |                      |                   | Air to water                                                                                             |                                                                                                  |                   |              |                   |  |  |
| Indoor side heat exchanger chiller:                                    |                      |                   | Water                                                                                                    |                                                                                                  |                   |              |                   |  |  |
| Type:                                                                  |                      |                   | Compressor driven vapour compression                                                                     |                                                                                                  |                   |              |                   |  |  |
| Driver of compressor:                                                  |                      |                   | Electric motor                                                                                           |                                                                                                  |                   |              |                   |  |  |
| Item                                                                   | Symbol               | Value             | Unit                                                                                                     | Item                                                                                             | Symbol            | Value        | Unit              |  |  |
| Rated cooling capacity                                                 | P <sub>rated,c</sub> | 4.9               | kW                                                                                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub>  | 186          | %                 |  |  |
| Declared cooling capacity for part load at given outdoo temperature Tj |                      |                   |                                                                                                          | Declared energy efficiency ratio for part load at given outdoor temperature Tj                   |                   |              |                   |  |  |
| Tj=+35°C                                                               | P <sub>dc</sub>      | 4.9               | kW                                                                                                       | Tj=+35°C                                                                                         | EERd              | 3.01         | -                 |  |  |
| Tj=+30°C                                                               | P <sub>dc</sub>      | 3.6               | kW                                                                                                       | Tj=+30°C                                                                                         | EERd              | 4.36         | -                 |  |  |
| Tj=+25°C                                                               | P <sub>dc</sub>      | 2.2               | kW                                                                                                       | Tj=+25°C                                                                                         | EERd              | 5.61         | -                 |  |  |
| Tj=+20°C                                                               | P <sub>dc</sub>      | 1.0               | kW                                                                                                       | Tj=+20°C                                                                                         | EERd              | 5.14         | -                 |  |  |
| Degradation co-efficient for chillers (*)                              | C <sub>dc</sub>      | 0.9               | -                                                                                                        |                                                                                                  |                   |              |                   |  |  |
|                                                                        |                      | Power cons        | umption in mod                                                                                           | des other than "active r                                                                         | mode"             |              |                   |  |  |
| Off mode                                                               | Poff                 | 0.009             | kW                                                                                                       | Crankcase heater mode                                                                            | Рск               | 0.000        | kW                |  |  |
| Thermosat-off mode                                                     | Рто                  | 0.004             | kW                                                                                                       | Standby mode                                                                                     | P <sub>SB</sub>   | 0.009        | kW                |  |  |
|                                                                        |                      |                   | Othe                                                                                                     | r items                                                                                          |                   |              |                   |  |  |
| Capacity control                                                       | variable             |                   |                                                                                                          | For air-to-water comfort chillers:                                                               |                   |              | 2.0               |  |  |
| Sound power level, indoors / outdoors                                  | L <sub>WA</sub>      | -/61              | dB                                                                                                       | air flow rate,<br>outdoor measured                                                               | -                 | 3050         | m <sup>3</sup> /h |  |  |
| Emissions of nitroger oxides (if applicable)                           | NO <sub>x</sub> (**) | -                 | mg/kWh<br>input GCV                                                                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | 1                 | -            | m³/h              |  |  |
| GWP of the refrigerant                                                 | -                    | 675               | kg CO <sub>2 eq</sub><br>(100years)                                                                      |                                                                                                  |                   |              |                   |  |  |
| Standard rating conditions used  Low tempera                           |                      | ature application |                                                                                                          |                                                                                                  |                   |              |                   |  |  |
|                                                                        |                      |                   | elle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>3 - Mail info@mitsuiairconditioner.com |                                                                                                  |                   |              |                   |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept                              |                      | measurement t     | hen the defaul                                                                                           | t degradation coefficier                                                                         | nt of chillers sh | nall be 0,9. |                   |  |  |

| Model(s):                                    |                      |                  | MHP5RP24MI                                                                                               |                                                     |                  |                 |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------|-----------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                             | Air to water                                        |                  |                 |                   |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                    |                                                     |                  |                 |                   |  |  |  |
| Туре:                                        |                      |                  | Compressor                                                                                               | driven vapour compres                               | sion             |                 |                   |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                            | r                                                   |                  |                 |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                     | Item                                                | Symbol           | Value           | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 4.6              | kW                                                                                                       | Seasonal space cooling energy efficiency            | η <sub>s,c</sub> | 301             | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | n outdoor                                                                                                | Declared energy eff                                 |                  | or part load at | given             |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 4.6              | kW                                                                                                       | Tj=+35°C                                            | EERd             | 4.97            | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 3.4              | kW                                                                                                       | Tj=+30°C                                            | EERd             | 6.96            | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 2.2              | kW                                                                                                       | Tj=+25°C                                            | EERd             | 9.40            | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 1.1              | kW                                                                                                       | Tj=+20°C                                            | EERd             | 8.50            | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                        |                                                     |                  |                 |                   |  |  |  |
|                                              |                      | Power cons       | sumption in mo                                                                                           | des other than "active r                            | node"            |                 |                   |  |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                                                                                       | Crankcase heater mode                               | Рск              | 0.000           | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.004            | kW                                                                                                       | Standby mode                                        | P <sub>SB</sub>  | 0.009           | kW                |  |  |  |
|                                              |                      |                  | Othe                                                                                                     | r items                                             |                  |                 |                   |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                          | For air-to-water comfort chillers:                  |                  | 0050            | 3.11              |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/61             | dB                                                                                                       | air flow rate,<br>outdoor measured                  | -                | 3050            | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                      | For water / brine-to-water chillers: Rated brine or |                  |                 | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub><br>(100years)                                                                      | water flow rate, outdoor side heat exchanger        | -                |                 | 111 /11           |  |  |  |
| Standard rating con                          | ditions used         | Medium tem       | nperature application                                                                                    |                                                     |                  |                 |                   |  |  |  |
| Contact details                              |                      |                  | elle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>3 - Mail info@mitsuiairconditioner.com |                                                     |                  |                 |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | neasurement t    | then the defaul                                                                                          | t degradation coefficien                            | t of chillers sh | nall be 0,9.    |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP7RP24MI                           |                                                       |                   |                 |       |  |  |
|----------------------------------------------|----------------------|------------------|--------------------------------------|-------------------------------------------------------|-------------------|-----------------|-------|--|--|
| Outdoor side heat e                          | exchanger of o       | hiller:          | Air to water                         |                                                       |                   |                 |       |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                |                                                       |                   |                 |       |  |  |
| Туре:                                        |                      |                  | Compressor driven vapour compression |                                                       |                   |                 |       |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                        | r                                                     |                   |                 |       |  |  |
| Item                                         | Symbol               | Value            | Unit                                 | Item                                                  | Symbol            | Value           | Unit  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 6.2              | kW                                   | Seasonal space cooling energy efficiency              | η <sub>s,c</sub>  | 196             | %     |  |  |
| Declared cooling contemperature Tj           | apacity for pa       | rt load at giver | n outdoor                            | Declared energy eff                                   |                   | or part load at | given |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 6.2              | kW                                   | Tj=+35°C                                              | EERd              | 2.78            | -     |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 4.7              | kW                                   | Tj=+30°C                                              | EERd              | 4.21            | -     |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 3.0              | kW                                   | Tj=+25°C                                              | EERd              | 6.10            | -     |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 1.4              | kW                                   | Tj=+20°C                                              | EERd              | 6.65            | -     |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                    |                                                       |                   |                 |       |  |  |
|                                              |                      | Power cons       | umption in mo                        | des other than "active r                              | mode"             |                 |       |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                   | Crankcase heater mode                                 | Рск               | 0.000           | kW    |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.002            | kW                                   | Standby mode                                          | P <sub>SB</sub>   | 0.009           | kW    |  |  |
|                                              |                      |                  | Othe                                 | r items                                               |                   |                 |       |  |  |
| Capacity control                             |                      | variable         |                                      | For air-to-water comfort chillers:                    |                   | 2050            | m³/h  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/64             | dB                                   | air flow rate,<br>outdoor measured                    | -                 | 3050            | myn   |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                  | For water / brine-to-water chillers: Rated brine or   | _                 |                 | m³/h  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)     | water flow rate, outdoor side heat exchanger          |                   |                 |       |  |  |
| Standard rating con                          | ditions used         | Low tempera      | ature application                    |                                                       |                   |                 |       |  |  |
| Contact details                              |                      |                  |                                      | eri,1/3 San Vito di Leguzzano<br>ilairconditioner.com | (VI) Italia       |                 |       |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t    | then the defaul                      | t degradation coefficien                              | nt of chillers sh | nall be 0,9.    |       |  |  |

| Model(s):                                    |                      |                  | MHP7RP24MI                           |                                                       |                   |                 |       |  |  |  |
|----------------------------------------------|----------------------|------------------|--------------------------------------|-------------------------------------------------------|-------------------|-----------------|-------|--|--|--|
| Outdoor side heat e                          | exchanger of c       | chiller:         | Air to water                         | Air to water                                          |                   |                 |       |  |  |  |
| Indoor side heat ex                          | changer chille       | r:               | Water                                |                                                       |                   |                 |       |  |  |  |
| Туре:                                        |                      |                  | Compressor driven vapour compression |                                                       |                   |                 |       |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                        | r                                                     |                   |                 |       |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                 | Item                                                  | Symbol            | Value           | Unit  |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 6.4              | kW                                   | Seasonal space cooling energy efficiency              | η <sub>s,c</sub>  | 340             | %     |  |  |  |
| Declared cooling of temperature Tj           | apacity for pa       | rt load at giver | outdoor                              | Declared energy effoutdoor temperatur                 |                   | or part load at | given |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 6.4              | kW                                   | Tj=+35°C                                              | EERd              | 4.72            | -     |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 4.9              | kW                                   | Tj=+30°C                                              | EERd              | 6.80            | -     |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 3.1              | kW                                   | Tj=+25°C                                              | EERd              | 10.70           | -     |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 1.6              | kW                                   | Tj=+20°C                                              | EERd              | 12.16           | -     |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                    |                                                       |                   |                 |       |  |  |  |
|                                              |                      | Power cons       | umption in mo                        | des other than "active r                              | mode"             |                 |       |  |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                   | Crankcase heater mode                                 | Рск               | 0.000           | kW    |  |  |  |
| Thermosat-off mode                           | Рто                  | 0.002            | kW                                   | Standby mode                                          | P <sub>SB</sub>   | 0.009           | kW    |  |  |  |
|                                              |                      |                  | Othe                                 | r items                                               |                   |                 |       |  |  |  |
| Capacity control                             |                      | variable         |                                      | For air-to-water comfort chillers:                    |                   |                 | 2.0   |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/64             | dB                                   | air flow rate,<br>outdoor measured                    | -                 | 3050            | m³/h  |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                  | For water / brine-to-water chillers: Rated brine or   |                   |                 | m³/h  |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)     | water flow rate, outdoor side heat exchanger          | <u>-</u>          |                 |       |  |  |  |
| Standard rating cor                          | nditions used        | Medium tem       | perature application                 |                                                       |                   |                 |       |  |  |  |
| Contact details                              |                      |                  |                                      | eri,1/3 San Vito di Leguzzano<br>uiairconditioner.com | (VI) Italia       |                 |       |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t    | then the defaul                      | t degradation coefficier                              | nt of chillers sh | nall be 0,9.    |       |  |  |  |

| Model(s):                                    |                      |                  | MHP9RP24MI                                                                                                 |                                                     |                   |                 |                   |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                               |                                                     |                   |                 |                   |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |
| Type:                                        |                      |                  | Compressor driven vapour compression                                                                       |                                                     |                   |                 |                   |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                   |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 7.9              | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 194             | %                 |  |  |
| Declared cooling c temperature Tj            | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy eff                                 |                   | or part load at | given             |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 7.9              | kW                                                                                                         | Tj=+35°C                                            | EERd              | 2.39            | -                 |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 5.9              | kW                                                                                                         | Tj=+30°C                                            | EERd              | 3.86            | -                 |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 3.9              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 5.95            | -                 |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 1.7              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 7.47            | -                 |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |
|                                              |                      | Power cons       | umption in mo                                                                                              | des other than "active r                            | node"             |                 |                   |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |
| Thermosat-off mode                           | Рто                  | 0.003            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |
|                                              |                      |                  | Othe                                                                                                       | er items                                            |                   |                 |                   |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0050            | 3.0               |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/67             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 3050            | m <sup>3</sup> /h |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or | _                 |                 | m³/h              |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub><br>(100years)                                                                        | water flow rate, outdoor side heat exchanger        | _                 |                 | 111 /11           |  |  |
| Standard rating conditions used Low temper   |                      |                  | ature application                                                                                          |                                                     |                   |                 |                   |  |  |
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| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | neasurement t    | then the defaul                                                                                            | t degradation coefficier                            | nt of chillers sh | all be 0,9.     |                   |  |  |

| Model(s):                                    |                      |                  | MHP9RP24MI                                                                                               |                                                     |                  |                 |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------|-----------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of o       | chiller:         | Air to water                                                                                             | Air to water                                        |                  |                 |                   |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                    |                                                     |                  |                 |                   |  |  |  |
| Туре:                                        |                      |                  | Compressor driven vapour compression                                                                     |                                                     |                  |                 |                   |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                            | r                                                   |                  |                 |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                     | Item                                                | Symbol           | Value           | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 7.9              | kW                                                                                                       | Seasonal space cooling energy efficiency            | $\eta_{s,c}$     | 312             | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                                                                                                  | Declared energy eff                                 |                  | or part load at | given             |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 7.9              | kW                                                                                                       | Tj=+35°C                                            | EERd             | 4.17            | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 6.1              | kW                                                                                                       | Tj=+30°C                                            | EERd             | 6.14            | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 3.8              | kW                                                                                                       | Tj=+25°C                                            | EERd             | 9.80            | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.0              | kW                                                                                                       | Tj=+20°C                                            | EERd             | 11.53           | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                        |                                                     |                  |                 |                   |  |  |  |
|                                              |                      | Power cons       | umption in mo                                                                                            | des other than "active n                            | node"            |                 |                   |  |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                                                                       | Crankcase heater mode                               | Pck              | 0.000           | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.003            | kW                                                                                                       | Standby mode                                        | P <sub>SB</sub>  | 0.009           | kW                |  |  |  |
|                                              |                      |                  | Othe                                                                                                     | r items                                             |                  |                 |                   |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                          | For air-to-water comfort chillers:                  |                  | 0050            | 3.11              |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/67             | dB                                                                                                       | air flow rate,<br>outdoor measured                  | -                | 3050            | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                      | For water / brine-to-water chillers: Rated brine or |                  |                 | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)                                                                         | water flow rate, outdoor side heat exchanger        | _                |                 | 111 /11           |  |  |  |
| Standard rating con                          | nditions used        | Medium tem       | nperature application                                                                                    |                                                     |                  |                 |                   |  |  |  |
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| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | neasurement t    | then the defaul                                                                                          | t degradation coefficien                            | t of chillers sh | nall be 0,9.    |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP12RP24MI                                                                                                |                                                     |                   |                 |                   |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                               |                                                     |                   |                 |                   |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |
| Type:                                        |                      |                  | Compressor driven vapour compression                                                                       |                                                     |                   |                 |                   |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | Electric motor                                      |                   |                 |                   |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 11.3             | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 191             | %                 |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | n outdoor                                                                                                  | Declared energy eff                                 |                   | or part load at | given             |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 11.3             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 2.90            | -                 |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 8.1              | kW                                                                                                         | Tj=+30°C                                            | EERd              | 4.05            | -                 |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 5.2              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 5.42            | -                 |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.5              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 6.73            | -                 |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |
|                                              |                      | Power cons       | sumption in mo                                                                                             | des other than "active r                            | mode"             |                 |                   |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |
| Thermosat-off mode                           | Рто                  | 0.012            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                   |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0450            | 3.11              |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/68             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h              |  |  |
| GWP of the refrigerant - 675 kg C0 (100)     |                      |                  |                                                                                                            | water flow rate, outdoor side heat exchanger        | _                 |                 | 111 /11           |  |  |
| Standard rating con                          | ditions used         | Low tempera      | ature application                                                                                          |                                                     |                   |                 |                   |  |  |
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| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t    | then the defaul                                                                                            | t degradation coefficien                            | nt of chillers sh | nall be 0,9.    |                   |  |  |

| Model(s):                                    |                      |                  | MHP12RP24MI                                                                                                |                                                     |                   |                 |                      |  |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|----------------------|--|--|--|
| Outdoor side heat e                          | exchanger of o       | hiller:          | Air to water                                                                                               | Air to water                                        |                   |                 |                      |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                      |  |  |  |
| Туре:                                        |                      |                  | Compressor                                                                                                 | Compressor driven vapour compression                |                   |                 |                      |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                      |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit                 |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 12.6             | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 297             | %                    |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy effort                              |                   | or part load at | given                |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 12.6             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 4.74            | -                    |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 8.9              | kW                                                                                                         | Tj=+30°C                                            | EERd              | 6.50            | -                    |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 5.9              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 8.65            | -                    |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.0              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 9.00            | -                    |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                      |  |  |  |
|                                              |                      | Power cons       | umption in mo                                                                                              | des other than "active r                            | mode"             |                 |                      |  |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                   |  |  |  |
| Thermosat-off mode                           | Рто                  | 0.012            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                   |  |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                      |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0450            | 34                   |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/68             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h    |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h                 |  |  |  |
| GWP of the refrigerant - 675                 |                      |                  | kg CO <sub>2 eq</sub> (100years)                                                                           | water flow rate, outdoor side heat exchanger        | <u>-</u>          | -               | III <sup>-</sup> /II |  |  |  |
| Standard rating conditions used Medium terr  |                      |                  | perature applic                                                                                            | cation                                              |                   |                 |                      |  |  |  |
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| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | hen the defaul                                                                                             | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                      |  |  |  |

| Model(s):                                    |                      |                  | MHP14RP24MI                                                                                                |                                                     |                   |                 |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of o       | hiller:          | Air to water                                                                                               |                                                     |                   |                 |                   |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |  |
| Type:                                        |                      |                  | Compressor                                                                                                 | Compressor driven vapour compression                |                   |                 |                   |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 12.9             | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 186             | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy effort                              |                   | or part load at | given             |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 12.9             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 2.71            | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 9.6              | kW                                                                                                         | Tj=+30°C                                            | EERd              | 3.90            | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.0              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 5.37            | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.9              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 6.71            | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |  |
|                                              |                      | Power cons       | umption in mod                                                                                             | des other than "active r                            | node"             |                 |                   |  |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |  |
| Thermosat-off mode                           | Рто                  | 0.022            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                   |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0450            | 34                |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/71             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h              |  |  |  |
| GWP of the refrigerant - 675                 |                      |                  | kg CO <sub>2 eq</sub> (100years)                                                                           | water flow rate, outdoor side heat exchanger        |                   |                 | 111 /11           |  |  |  |
| Standard rating conditions used   Low temper |                      |                  | ature applicatio                                                                                           | n                                                   |                   |                 |                   |  |  |  |
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| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | hen the defaul                                                                                             | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP14RP24                                                                                                  | MHP14RP24MI                                         |                   |                 |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                               | Air to water                                        |                   |                 |                   |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |  |
| Туре:                                        |                      |                  | Compressor                                                                                                 | driven vapour compres                               | sion              |                 |                   |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 14.2             | kW                                                                                                         | Seasonal space cooling energy efficiency            | η <sub>s,c</sub>  | 283             | %                 |  |  |  |
| Declared cooling contemperature Tj           | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy effort                              |                   | or part load at | given             |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 14.2             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 4.42            | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 10.5             | kW                                                                                                         | Tj=+30°C                                            | EERd              | 6.14            | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.6              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 8.44            | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.9              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 8.43            | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |  |
|                                              |                      | Power cons       | umption in mod                                                                                             | des other than "active r                            | mode"             |                 |                   |  |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.022            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                   |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0450            | . 34              |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/71             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h              |  |  |  |
| GWP of the refrigerant - 675                 |                      |                  | kg CO <sub>2 eq</sub> (100years)                                                                           | water flow rate, outdoor side heat exchanger        | -                 | -               | 111 /11           |  |  |  |
| Standard rating conditions used Medium terr  |                      |                  | perature applic                                                                                            | cation                                              |                   |                 |                   |  |  |  |
| Contact details                              |                      |                  | lelle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>33 - Mail info@mitsuiairconditioner.com |                                                     |                   |                 |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t    | hen the defaul                                                                                             | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP16RP24                                                                                                  | MI                                                  |                   |                 |                   |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|
| Outdoor side heat e                          | exchanger of o       | hiller:          | Air to water                                                                                               |                                                     |                   |                 |                   |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |
| Туре:                                        |                      |                  | Compressor                                                                                                 | driven vapour compres                               | sion              |                 |                   |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                   |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 13.9             | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 178             | %                 |  |  |
| Declared cooling ca<br>temperature Tj        | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy effort                              |                   | or part load at | given             |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 13.9             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 2.53            | -                 |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 10.5             | kW                                                                                                         | Tj=+30°C                                            | EERd              | 3.81            | -                 |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.4              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 5.16            | -                 |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.1              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 6.49            | -                 |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |
|                                              |                      | Power cons       | umption in mo                                                                                              | des other than "active r                            | mode"             |                 |                   |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |
| Thermosat-off mode                           | Рто                  | 0.031            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                   |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 0450            | 34                |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/71             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>×</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h              |  |  |
| GWP of the refrigerant - 675                 |                      |                  | kg CO <sub>2 eq</sub><br>(100years)                                                                        | water flow rate, outdoor side heat exchanger        | -                 | -               | 111:711           |  |  |
| Standard rating conditions used   Low temper |                      |                  | ature applicatio                                                                                           | n                                                   |                   |                 |                   |  |  |
| Contact details                              |                      |                  | lelle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>33 - Mail info@mitsuiairconditioner.com |                                                     |                   |                 |                   |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | then the defaul                                                                                            | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                   |  |  |

| Model(s):                                    |                      |                  | MHP16RP24                                                                                                  | MHP16RP24MI                                         |                   |                 |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                               | Air to water                                        |                   |                 |                   |  |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                      |                                                     |                   |                 |                   |  |  |  |
| Type:                                        |                      |                  | Compressor                                                                                                 | driven vapour compres                               | sion              |                 |                   |  |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                              | r                                                   |                   |                 |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                       | Item                                                | Symbol            | Value           | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 15.3             | kW                                                                                                         | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 268             | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                                                                                                    | Declared energy effort                              |                   | or part load at | given             |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 15.3             | kW                                                                                                         | Tj=+35°C                                            | EERd              | 4.19            | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 11.3             | kW                                                                                                         | Tj=+30°C                                            | EERd              | 5.94            | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 7.2              | kW                                                                                                         | Tj=+25°C                                            | EERd              | 7.98            | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.4              | kW                                                                                                         | Tj=+20°C                                            | EERd              | 8.27            | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                          |                                                     |                   |                 |                   |  |  |  |
|                                              |                      | Power cons       | umption in mod                                                                                             | des other than "active r                            | node"             |                 |                   |  |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                                                                         | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |  |
| Thermosat-off mode                           | Рто                  | 0.031            | kW                                                                                                         | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |  |
|                                              |                      |                  | Othe                                                                                                       | r items                                             |                   |                 |                   |  |  |  |
| Capacity control                             |                      | variable         |                                                                                                            | For air-to-water comfort chillers:                  |                   | 2.1-2           | 2.0               |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/71             | dB                                                                                                         | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>×</sub> (**) | -                | mg/kWh<br>input GCV                                                                                        | For water / brine-to-water chillers: Rated brine or |                   |                 | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub><br>(100years)                                                                        | water flow rate, outdoor side heat exchanger        | -                 | -               | 111-/11           |  |  |  |
| Standard rating conditions used Medium terr  |                      |                  | perature applic                                                                                            | cation                                              |                   |                 |                   |  |  |  |
| Contact details                              |                      |                  | lelle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>33 - Mail info@mitsuiairconditioner.com |                                                     |                   |                 |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | hen the defaul                                                                                             | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP12RP24P3MI                                                                                            |                                                     |                   |                 |                   |  |  |
|----------------------------------------------|----------------------|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|-------------------|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:          | Air to water                                                                                             |                                                     |                   |                 |                   |  |  |
| Indoor side heat exc                         | changer chille       | r:               | Water                                                                                                    |                                                     |                   |                 |                   |  |  |
| Type:                                        |                      |                  | Compressor driven vapour compression                                                                     |                                                     |                   |                 |                   |  |  |
| Driver of compresso                          | or:                  |                  | Electric moto                                                                                            | r                                                   |                   |                 |                   |  |  |
| Item                                         | Symbol               | Value            | Unit                                                                                                     | Item                                                | Symbol            | Value           | Unit              |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 11.3             | kW                                                                                                       | Seasonal space cooling energy efficiency            | $\eta_{s,c}$      | 191             | %                 |  |  |
| Declared cooling contemperature Tj           | apacity for pa       | rt load at giver | outdoor                                                                                                  | Declared energy effort                              |                   | or part load at | given             |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 11.3             | kW                                                                                                       | Tj=+35°C                                            | EERd              | 2.90            | -                 |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 8.1              | kW                                                                                                       | Tj=+30°C                                            | EERd              | 4.05            | -                 |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 5.2              | kW                                                                                                       | Tj=+25°C                                            | EERd              | 5.42            | -                 |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.5              | kW                                                                                                       | Tj=+20°C                                            | EERd              | 6.73            | -                 |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                                                                                        |                                                     |                   |                 |                   |  |  |
|                                              |                      | Power cons       | umption in mo                                                                                            | des other than "active r                            | mode"             |                 |                   |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                                                                       | Crankcase heater mode                               | Рск               | 0.000           | kW                |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.012            | kW                                                                                                       | Standby mode                                        | P <sub>SB</sub>   | 0.009           | kW                |  |  |
|                                              |                      |                  | Othe                                                                                                     | er items                                            |                   |                 |                   |  |  |
| Capacity control                             |                      | variable         |                                                                                                          | For air-to-water comfort chillers:                  |                   | 0450            | 3//-              |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/68             | dB                                                                                                       | air flow rate,<br>outdoor measured                  | -                 | 6150            | m <sup>3</sup> /h |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                                                                      | For water / brine-to-water chillers: Rated brine or | _                 |                 | m³/h              |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)                                                                         | water flow rate, outdoor side heat exchanger        |                   |                 | 111 /11           |  |  |
| Standard rating conditions used Low temper   |                      |                  | ature application                                                                                        |                                                     |                   |                 |                   |  |  |
| Contact details                              |                      |                  | elle Arti e dei Mestieri,1/3 San Vito di Leguzzano (VI) Italia<br>3 - Mail info@mitsuiairconditioner.com |                                                     |                   |                 |                   |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t    | then the defaul                                                                                          | t degradation coefficier                            | nt of chillers sh | nall be 0,9.    |                   |  |  |

| Model(s):                                    |                      |                  | MHP12RP24                            | P3MI                                                                           |                   |              |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|--------------------------------------|--------------------------------------------------------------------------------|-------------------|--------------|-------------------|--|--|--|
| Outdoor side heat e                          | xchanger of c        | hiller:          | Air to water                         |                                                                                |                   |              |                   |  |  |  |
| Indoor side heat exchanger chiller:          |                      |                  | Water                                |                                                                                |                   |              |                   |  |  |  |
| Туре:                                        |                      |                  | Compressor driven vapour compression |                                                                                |                   |              |                   |  |  |  |
| Driver of compressor:                        |                      |                  | Electric motor                       |                                                                                |                   |              |                   |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                 | Item                                                                           | Symbol            | Value        | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 12.6             | kW                                   | Seasonal space cooling energy efficiency                                       | $\eta_{s,c}$      | 297          | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                              | Declared energy efficiency ratio for part load at given outdoor temperature Tj |                   |              |                   |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 12.6             | kW                                   | Tj=+35°C                                                                       | EERd              | 4.74         | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 8.9              | kW                                   | Tj=+30°C                                                                       | EERd              | 6.50         | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 5.9              | kW                                   | Tj=+25°C                                                                       | EERd              | 8.65         | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.0              | kW                                   | Tj=+20°C                                                                       | EERd              | 9.00         | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                    |                                                                                |                   |              |                   |  |  |  |
|                                              |                      | Power cons       | umption in mod                       | des other than "active r                                                       | node"             |              |                   |  |  |  |
| Off mode                                     | P <sub>OFF</sub>     | 0.009            | kW                                   | Crankcase heater mode                                                          | Рск               | 0.000        | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.012            | kW                                   | Standby mode                                                                   | P <sub>SB</sub>   | 0.009        | kW                |  |  |  |
| ·                                            |                      |                  | Othe                                 | r items                                                                        |                   |              |                   |  |  |  |
| Capacity control                             |                      | variable         |                                      | For air-to-water comfort chillers:                                             |                   |              | m³/h              |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/68             | dB                                   | air flow rate,<br>outdoor measured                                             | -                 | 6150         | m <sup>y</sup> /n |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                  | For water / brine-to-water chillers: Rated brine or                            |                   |              | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)     | water flow rate, outdoor side heat exchanger                                   | _                 |              | ///               |  |  |  |
| Standard rating conditions used Medium ter   |                      | Medium tem       | perature applic                      | cation                                                                         |                   |              |                   |  |  |  |
|                                              |                      |                  |                                      | eri,1/3 San Vito di Leguzzano<br>iiairconditioner.com                          | (VI) Italia       |              |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | then the defaul                      | t degradation coefficier                                                       | nt of chillers sh | nall be 0,9. |                   |  |  |  |

| Model(s):                                    |                      |                  | MHP14RP24                            | P3MI                                                  |                                                                                |              |                   |  |  |  |
|----------------------------------------------|----------------------|------------------|--------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|--------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of o       | chiller:         | Air to water                         |                                                       |                                                                                |              |                   |  |  |  |
| Indoor side heat exchanger chiller:          |                      |                  | Water                                |                                                       |                                                                                |              |                   |  |  |  |
| Type:                                        |                      |                  | Compressor driven vapour compression |                                                       |                                                                                |              |                   |  |  |  |
| Driver of compressor:                        |                      |                  | Electric motor                       |                                                       |                                                                                |              |                   |  |  |  |
| Item                                         | Symbol               | Value            | Value Unit Item Symbol Val           |                                                       |                                                                                |              |                   |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 12.9             | kW                                   | Seasonal space cooling energy efficiency              | η <sub>s,c</sub>                                                               | 186          | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                              | Declared energy eff                                   | Declared energy efficiency ratio for part load at given outdoor temperature Tj |              |                   |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 12.9             | kW                                   | Tj=+35°C                                              | EERd                                                                           | 2.71         | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 9.6              | kW                                   | Tj=+30°C                                              | EERd                                                                           | 3.90         | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.0              | kW                                   | Tj=+25°C                                              | EERd                                                                           | 5.37         | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.9              | kW                                   | Tj=+20°C                                              | EERd                                                                           | 6.71         | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9              | -                                    |                                                       |                                                                                |              |                   |  |  |  |
|                                              |                      | Power cons       | umption in mo                        | des other than "active r                              | node"                                                                          |              |                   |  |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                   | Crankcase heater mode                                 | Рск                                                                            | 0.000        | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.022            | kW                                   | Standby mode                                          | P <sub>SB</sub>                                                                | 0.009        | kW                |  |  |  |
| ·                                            |                      |                  | Othe                                 | er items                                              |                                                                                |              |                   |  |  |  |
| Capacity control                             |                      | variable         |                                      | For air-to-water comfort chillers:                    |                                                                                |              | 3 /lb             |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/71             | dB                                   | air flow rate,<br>outdoor measured                    | -                                                                              | 6150         | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                  | For water / brine-to-water chillers: Rated brine or   | _                                                                              |              | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub><br>(100years)  | water flow rate, outdoor side heat exchanger          |                                                                                |              | ///               |  |  |  |
| Standard rating conditions used  Low temper  |                      | Low tempera      | ature applicatio                     | on                                                    |                                                                                |              |                   |  |  |  |
|                                              |                      |                  |                                      | eri,1/3 San Vito di Leguzzano<br>uiairconditioner.com | (VI) Italia                                                                    |              |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | hen the defaul                       | t degradation coefficier                              | nt of chillers sh                                                              | nall be 0,9. |                   |  |  |  |

| Model(s):                                    |                      | MHP14RP24           | P3MI                             |                                                       |                                                                                |              |                   |  |  |  |
|----------------------------------------------|----------------------|---------------------|----------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|--------------|-------------------|--|--|--|
| Outdoor side heat exchanger of chiller:      |                      |                     | Air to water                     |                                                       |                                                                                |              |                   |  |  |  |
| Indoor side heat exchanger chiller:          |                      |                     | Water                            |                                                       |                                                                                |              |                   |  |  |  |
| Type:                                        |                      |                     | Compressor                       | Compressor driven vapour compression                  |                                                                                |              |                   |  |  |  |
| Driver of compressor:                        |                      |                     | Electric motor                   |                                                       |                                                                                |              |                   |  |  |  |
| Item                                         | Symbol               | Value               | Unit                             | Item                                                  | Symbol                                                                         | Value        | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 14.2                | kW                               | Seasonal space cooling energy efficiency              | η <sub>s,c</sub>                                                               | 283          | %                 |  |  |  |
| Declared cooling c temperature Tj            | apacity for pa       | rt load at giver    | outdoor                          | Declared energy ef                                    | Declared energy efficiency ratio for part load at given outdoor temperature Tj |              |                   |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 14.2                | kW                               | Tj=+35°C                                              | EERd                                                                           | 4.42         | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 10.5                | kW                               | Tj=+30°C                                              | EERd                                                                           | 6.14         | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.6                 | kW                               | Tj=+25°C                                              | EERd                                                                           | 8.44         | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 2.9                 | kW                               | Tj=+20°C                                              | EERd                                                                           | 8.43         | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | C <sub>dc</sub> 0.9 |                                  |                                                       |                                                                                |              |                   |  |  |  |
|                                              |                      | Power cons          | umption in mo                    | des other than "active r                              | mode"                                                                          |              |                   |  |  |  |
| Off mode                                     | Poff                 | 0.009               | kW                               | Crankcase heater mode                                 | Рск                                                                            | 0.000        | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.022               | kW                               | Standby mode                                          | P <sub>SB</sub>                                                                | 0.009        | kW                |  |  |  |
|                                              |                      |                     | Othe                             | r items                                               |                                                                                |              |                   |  |  |  |
| Capacity control                             |                      | variable            |                                  | For air-to-water comfort chillers:                    |                                                                                | 24-2         | 2.0               |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/71                | dB                               | air flow rate,<br>outdoor measured                    | -                                                                              | 6150         | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                   | mg/kWh<br>input GCV              | For water / brine-to-water chillers: Rated brine or   |                                                                                |              | . 3 n             |  |  |  |
| GWP of the refrigerant                       | -                    | 675                 | kg CO <sub>2 eq</sub> (100years) | water flow rate, outdoor side heat exchanger          |                                                                                | _            | m <sup>3</sup> /h |  |  |  |
| Standard rating conditions used Medium tem   |                      | perature applic     | cation                           |                                                       |                                                                                |              |                   |  |  |  |
|                                              |                      |                     |                                  | eri,1/3 San Vito di Leguzzano<br>uiairconditioner.com | (VI) Italia                                                                    |              |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Sept    |                      | measurement t       | hen the defaul                   | t degradation coefficier                              | nt of chillers sh                                                              | nall be 0,9. |                   |  |  |  |

| Model(s):                                    |                      |                                  | MHP16RP24                            | P3MI                                                  |                                                                                |              |                   |  |  |  |
|----------------------------------------------|----------------------|----------------------------------|--------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|--------------|-------------------|--|--|--|
| Outdoor side heat e                          | exchanger of c       | hiller:                          | Air to water                         |                                                       |                                                                                |              |                   |  |  |  |
| Indoor side heat exchanger chiller:          |                      |                                  | Water                                |                                                       |                                                                                |              |                   |  |  |  |
| Туре:                                        |                      |                                  | Compressor driven vapour compression |                                                       |                                                                                |              |                   |  |  |  |
| Driver of compressor:                        |                      |                                  | Electric motor                       |                                                       |                                                                                |              |                   |  |  |  |
| Item                                         | Symbol               | Value                            | Unit                                 | Item                                                  | Symbol                                                                         | Value        | Unit              |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 13.9                             | kW                                   | Seasonal space cooling energy efficiency              | $\eta_{s,c}$                                                                   | 178          | %                 |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver                 | outdoor                              |                                                       | Declared energy efficiency ratio for part load at given outdoor temperature Tj |              |                   |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 13.9                             | kW                                   | Tj=+35°C                                              | EERd                                                                           | 2.53         | -                 |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 10.5                             | kW                                   | Tj=+30°C                                              | EERd                                                                           | 3.81         | -                 |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 6.4                              | kW                                   | Tj=+25°C                                              | EERd                                                                           | 5.16         | -                 |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.1                              | kW                                   | Tj=+20°C                                              | EERd                                                                           | 6.49         | -                 |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9                              |                                      |                                                       |                                                                                |              |                   |  |  |  |
|                                              |                      | Power cons                       | umption in mo                        | des other than "active r                              | mode"                                                                          |              |                   |  |  |  |
| Off mode                                     | Poff                 | 0.009                            | kW                                   | Crankcase heater mode                                 | Рск                                                                            | 0.000        | kW                |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.031                            | kW                                   | Standby mode                                          | P <sub>SB</sub>                                                                | 0.009        | kW                |  |  |  |
|                                              |                      |                                  | Othe                                 | r items                                               |                                                                                |              |                   |  |  |  |
| Capacity control                             |                      | variable                         |                                      | For air-to-water comfort chillers:                    |                                                                                |              | 34                |  |  |  |
| Sound power level, indoors / outdoors        | L <sub>WA</sub>      | -/71                             | dB                                   | air flow rate,<br>outdoor measured                    | -                                                                              | 6150         | m <sup>3</sup> /h |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                                | mg/kWh<br>input GCV                  | For water / brine-to-water chillers: Rated brine or   |                                                                                |              | m³/h              |  |  |  |
| GWP of the refrigerant                       | -                    | 675 kg CO <sub>2 6</sub> (100yea |                                      | water flow rate, outdoor side heat exchanger          | <u>-</u>                                                                       |              | 111º/11<br>       |  |  |  |
| Standard rating conditions used Low temper   |                      | ature applicatio                 | n                                    |                                                       |                                                                                |              |                   |  |  |  |
|                                              |                      |                                  |                                      | eri,1/3 San Vito di Leguzzano<br>iiairconditioner.com | (VI) Italia                                                                    |              |                   |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t                    | hen the defaul                       | t degradation coefficier                              | nt of chillers sh                                                              | nall be 0,9. |                   |  |  |  |

| Model(s):                                    |                      | MHP16RP24        | P3MI                                                  |                                                                                |                   |              |         |  |  |  |
|----------------------------------------------|----------------------|------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|-------------------|--------------|---------|--|--|--|
| Outdoor side heat e                          | xchanger of c        | hiller:          | Air to water                                          |                                                                                |                   |              |         |  |  |  |
| Indoor side heat exchanger chiller:          |                      |                  | Water                                                 |                                                                                |                   |              |         |  |  |  |
| Туре:                                        |                      |                  | Compressor driven vapour compression                  |                                                                                |                   |              |         |  |  |  |
| Driver of compressor:                        |                      |                  | Electric motor                                        |                                                                                |                   |              |         |  |  |  |
| Item                                         | Symbol               | Value            | Unit                                                  | Item                                                                           | Symbol            | Value        | Unit    |  |  |  |
| Rated cooling capacity                       | P <sub>rated,c</sub> | 15.3             | kW                                                    | Seasonal space cooling energy efficiency                                       | η <sub>s,c</sub>  | 268          | %       |  |  |  |
| Declared cooling catemperature Tj            | apacity for pa       | rt load at giver | outdoor                                               | Declared energy efficiency ratio for part load at given outdoor temperature Tj |                   |              |         |  |  |  |
| Tj=+35°C                                     | P <sub>dc</sub>      | 15.3             | kW                                                    | Tj=+35°C                                                                       | EERd              | 4.19         | -       |  |  |  |
| Tj=+30°C                                     | P <sub>dc</sub>      | 11.3             | kW                                                    | Tj=+30°C                                                                       | EERd              | 5.94         | -       |  |  |  |
| Tj=+25°C                                     | P <sub>dc</sub>      | 7.2              | kW                                                    | Tj=+25°C                                                                       | EERd              | 7.98         | -       |  |  |  |
| Tj=+20°C                                     | P <sub>dc</sub>      | 3.4              | kW                                                    | Tj=+20°C                                                                       | EERd              | 8.27         | -       |  |  |  |
| Degradation co-efficient for chillers (*)    | C <sub>dc</sub>      | 0.9 -            |                                                       |                                                                                |                   |              |         |  |  |  |
| ·                                            |                      | Power cons       | umption in mo                                         | des other than "active r                                                       | mode"             |              |         |  |  |  |
| Off mode                                     | Poff                 | 0.009            | kW                                                    | Crankcase heater mode                                                          | Рск               | 0.000        | kW      |  |  |  |
| Thermosat-off mode                           | P <sub>TO</sub>      | 0.031            | kW                                                    | Standby mode                                                                   | P <sub>SB</sub>   | 0.009        | kW      |  |  |  |
|                                              |                      |                  | Othe                                                  | r items                                                                        |                   |              |         |  |  |  |
| Capacity control                             |                      | variable         |                                                       | For air-to-water comfort chillers:                                             |                   |              | m³/h    |  |  |  |
| Sound power level, indoors / outdoors        | Lwa                  | -/71             | dB                                                    | air flow rate,<br>outdoor measured                                             | -                 | 6150         | myn     |  |  |  |
| Emissions of nitroger oxides (if applicable) | NO <sub>x</sub> (**) | -                | mg/kWh<br>input GCV                                   | For water / brine-to-water chillers: Rated brine or                            |                   |              | m³/h    |  |  |  |
| GWP of the refrigerant                       | -                    | 675              | kg CO <sub>2 eq</sub> (100years)                      | water flow rate, outdoor side heat exchanger                                   | -                 | -            | 111 711 |  |  |  |
| Standard rating conditions used Medium tem   |                      | perature applic  | cation                                                |                                                                                |                   |              |         |  |  |  |
|                                              |                      |                  | eri,1/3 San Vito di Leguzzano<br>iiairconditioner.com | (VI) Italia                                                                    |                   |              |         |  |  |  |
| (*) If Cdc is not de<br>(**) From 26 Septe   |                      | measurement t    | then the defaul                                       | t degradation coefficier                                                       | nt of chillers sh | nall be 0,9. |         |  |  |  |

|               | Mode                |       |       | Heatin | ıg    |       | Coc   | ling  |
|---------------|---------------------|-------|-------|--------|-------|-------|-------|-------|
| Model         | Ambient temperature |       | 7/6   |        | 2/1   | -7/-8 | 35    | /24   |
|               | Water temperature   | 30-35 | 40-45 | 47-55  | 30-35 | 30-35 | 23-18 | 12-7  |
|               | Capacity /W         | 4650  | 4800  | 4650   | 4600  | 4900  | 4600  | 4850  |
| MHP5RP24MI    | Power input /W      | 930   | 1333  | 1768   | 1156  | 1639  | 954   | 1628  |
|               | COP / EER           | 5.00  | 3.60  | 2.63   | 3.98  | 2.99  | 4.82  | 2.98  |
|               | Capacity /W         | 6650  | 6700  | 6800   | 6200  | 6450  | 6450  | 6300  |
| MHP7RP24MI    | Power input /W      | 1348  | 1879  | 2424   | 1590  | 2164  | 1387  | 2274  |
|               | COP / EER           | 4.94  | 3.57  | 2.81   | 3.90  | 2.98  | 4.65  | 2.77  |
|               | Capacity /W         | 8600  | 8600  | 8600   | 7100  | 7500  | 8000  | 7950  |
| MHP9RP24MI    | Power input /W      | 1870  | 2500  | 3127   | 2034  | 2534  | 1923  | 3149  |
|               | COP / EER           | 4.60  | 3.44  | 2.75   | 3.49  | 2.96  | 4.16  | 2.53  |
|               | Capacity /W         | 12300 | 12400 | 11900  | 12200 | 12000 | 12200 | 10900 |
| MHP12RP24MI   | Power input /W      | 2557  | 3518  | 4281   | 3406  | 4290  | 2552  | 3739  |
|               | COP / EER           | 4.81  | 3.53  | 2.78   | 3.58  | 2.80  | 4.78  | 2.92  |
|               | Capacity /W         | 14100 | 14100 | 14200  | 13000 | 12800 | 14000 | 12900 |
| MHP14RP24MI   | Power input /W      | 3065  | 4063  | 5173   | 3657  | 4602  | 3101  | 4615  |
|               | COP / EER           | 4.60  | 3.47  | 2.75   | 3.56  | 2.78  | 4.52  | 2.80  |
|               | Capacity /W         | 16300 | 16200 | 16100  | 15000 | 13500 | 15500 | 13800 |
| MHP16RP24MI   | Power input /W      | 3663  | 4723  | 5908   | 4492  | 4913  | 3643  | 5208  |
|               | COP / EER           | 4.45  | 3.43  | 2.73   | 3.34  | 2.75  | 4.26  | 2.65  |
|               | Capacity /W         | 12300 | 12400 | 11900  | 12200 | 12000 | 12200 | 10900 |
| MHP12RP24P3MI | Power input /W      | 2541  | 3454  | 4235   | 3351  | 4221  | 2528  | 3720  |
|               | COP / EER           | 4.84  | 3.59  | 2.81   | 3.64  | 2.84  | 4.83  | 2.93  |
|               | Capacity /W         | 14100 | 14100 | 14200  | 13000 | 12800 | 14000 | 12900 |
| MHP14RP24P3MI | Power input /W      | 3045  | 3989  | 5099   | 3627  | 4548  | 3111  | 4615  |
|               | COP / EER           | 4.63  | 3.54  | 2.79   | 3.58  | 2.81  | 4.50  | 2.80  |
|               | Capacity /W         | 16300 | 16200 | 16100  | 15000 | 13500 | 15500 | 13800 |
| MHP16RP24P3MI | Power input /W      | 3634  | 4702  | 5833   | 4449  | 4845  | 3634  | 5188  |
|               | COP / EER           | 4.49  | 3.45  | 2.76   | 3.37  | 2.79  | 4.27  | 2.66  |

# NOTE

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