

## Model: MHC-V12W/D2RN8

| <b>Configure model</b>              |                       |
|-------------------------------------|-----------------------|
| Model name                          | MHC-V12W/D2RN8        |
| Application                         | Heating (medium temp) |
| Units                               | Outdoor               |
| Climate Zone                        | n/a                   |
| Reversibility                       | No                    |
| Cooling mode application (optional) | n/a                   |

| <b>General Data</b> |             |
|---------------------|-------------|
| Power supply        | 3x400V 50Hz |

### Heating

| <b>EN 14511-4</b>  |        |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |
| Defrost test   | passed |

| <b>EN 14511-2</b> |                        |                           |
|-------------------|------------------------|---------------------------|
|                   | <b>Low temperature</b> | <b>Medium temperature</b> |
| Heat output       | 12.30 kW               | 11.90 kW                  |
| El input          | 2.54 kW                | 4.23 kW                   |
| COP               | 4.84                   | 2.81                      |

### Average Climate

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 169 %                  | 126 %                     |
| Prated          | 12.00 kW               | 13.00 kW                  |
| SCOP            | 4.29                   | 3.23                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C   | 10.52 kW               | 11.29 kW                  |
| COP Tj = -7°C   | 2.88                   | 2.05                      |
| Cdh Tj = -7 °C  | 0.90                   | 0.90                      |
| Pdh Tj = +2°C   | 6.50 kW                | 7.31 kW                   |
| COP Tj = +2°C   | 4.15                   | 3.14                      |
| Cdh Tj = +2 °C  | 0.90                   | 0.90                      |
| Pdh Tj = +7°C   | 4.12 kW                | 4.96 kW                   |
| COP Tj = +7°C   | 5.74                   | 4.25                      |
| Cdh Tj = +7 °C  | 0.90                   | 0.90                      |
| Pdh Tj = 12°C   | 2.23 kW                | 2.37 kW                   |
| COP Tj = 12°C   | 5.40                   | 4.94                      |
| Cdh Tj = +12 °C | 0.90                   | 0.90                      |
| Pdh Tj = Tbiv   | 10.52 kW               | 11.29 kW                  |
| COP Tj = Tbiv   | 2.88                   | 2.05                      |

This information was generated by the HP KEYMARK database on 13 Oct 2021

|   |             |             |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 12.01 kW    | 11.88 kW    |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$       | 2.60        | 1.79        |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.90        | 0.90        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 9 W         | 9 W         |
| PTO   | 15 W        | 15 W        |
| PSB   | 9 W         | 9 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input                              | Electricity | Electricity |
| Supplementary Heater: PSUP  | 0.00 kW     | 0.90 kW     |
| Annual energy consumption $Q_{he}$                                      | 5726 kWh    | 8164 kWh    |

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | dB(A)           | dB(A)              |
| Sound power level outdoor | 68 dB(A)        | 68 dB(A)           |