

## Technical parameters

|   |               |
|---|---------------|
| Model(s):   | MGC-V12W/D2N1 |
| Air-to-water heat pump:   | YES           |
| Water-to-water heat pump:   | NO            |
| Brine-to-water heat pump:   | NO            |
| Low-temperature heat pump:  | YES           |
| Equipped with a supplementary heater:   | NO            |
| Heat pump combination heater:   | NO            |
| Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application. |               |
| Parameters shall be declared for average, colder and warmer climate conditions.   |               |


| Item   | Symbol            | Value    | Unit |
|--|-------------------|----------|------|
| Rated heat output (*)  | Prated            | 12       | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |          |      |
| Tj = -7°C  | Pdh               | 10.5     | kW   |
| Tj = 2°C   | Pdh               | 6.8      | kW   |
| Tj = 7°C   | Pdh               | 4.4      | kW   |
| Tj = 12°C  | Pdh               | 2.1      | kW   |
| Tj = bivalent temperature  | Pdh               | 10.9     | kW   |
| Tj = operating limit   | Pdh               | 10.0     | kW   |
| For air-to-water heat pumps: Tj = -15°C  | Pdh               | -        | kW   |
| Bivalent temperature   | T <sub>biv</sub>  | -6       | °C   |
| Cycling interval capacity for heating  | P <sub>cych</sub> | -        | kW   |
| Degradation co-efficient (**)  | C <sub>dh</sub>   | 0.9      | --   |
| Power consumption in modes other than active mode  |                   |          |      |
| off mode   | P <sub>off</sub>  | 0.018    | kW   |
| standby mode   | P <sub>sb</sub>   | 0.019    | kW   |
| thermostat-off mode  | P <sub>to</sub>   | 0.023    | kW   |
| crankcase heater mode  | P <sub>ck</sub>   | 0.060    | kW   |
| Other items  |                   |          |      |
| Capacity control   |                   | variable |      |
| Sound power level, indoors/ outdoors   | LWA               | -/68     | dB   |
| Annual energy consumption  | Q <sub>HE</sub>   | 7400     | kWh  |

| Item   | Symbol                                   | Value | Unit |
|--|--|-------|------|
| Seasonal space heating energy efficiency   | η <sub>s</sub>                           | 135   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |       |      |
| Tj = -7°C  | COP <sub>d</sub>                         | 2.25  | -    |
| Tj = 2°C   | COP <sub>d</sub>                         | 3.35  | -    |
| Tj = 7°C   | COP <sub>d</sub>                         | 5.00  | -    |
| Tj = 12°C  | COP <sub>d</sub>                         | 5.15  | -    |
| Tj = bivalent temperature  | COP <sub>d</sub>                         | 2.35  | -    |
| Tj = operating limit   | COP <sub>d</sub>                         | 2.15  | -    |
| For air-to-water heat pumps: Tj = -15°C  | COP <sub>d</sub>                         | -     | -    |
| For air-to-water heat pumps: Operation limit temperature   | TOL                                      | -10   | °C   |
| Cycling interval efficiency  | COP <sub>cyc</sub> or PER <sub>cyc</sub> | -     | %    |
| Heating water operating limit temperature  | WTOL                                     | -     | °C   |
| Supplementary heater   |  |       |      |
| Rated heat output (**)   | P <sub>sup</sub>                         | -     | kW   |
| Type of energy input   |  | -     |      |
| For air-to-water heat pumps: Rated air flow rate, outdoors   |  | 4800  | m³/h |
| For water-/or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  |  | -     | m³/h |


|                                   |                   |   |     |
|-----------------------------------|-------------------|---|-----|
| For heat pump combination heater: |                   |   |     |
| Declared load profile             |                   | - |     |
| Daily electricity consumption     | Q <sub>elec</sub> | - | kWh |
| Annual electricity consumption    | AEC               | - | kWh |
| Water heating energy efficiency   | η <sub>wh</sub>   | - | %   |
| Daily fuel consumption            | Q <sub>fuel</sub> | - | kWh |
| Annual fuel consumption           | AFC               | - | GJ  |

|                 |   |
|-----------------|---|
| Contact details | GD Midea Heating & Ventilating Equipment Co. , Ltd.Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China |
|-----------------|---|

(\*) 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.





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**MGC-V12W/D2N1**


35°C



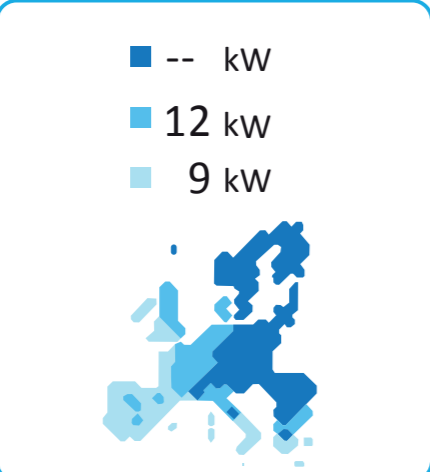




-- dB



**68 dB**



■ -- kW  
■ 12 kW  
■ 9 kW

2015

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