

| Technical parameters | | | | |
|--|---|--|--|--|
| Model(s): | MHC-V12W/D2RN1 | | | |
| 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: | YES | | | |
| Heat pump combination heater: | NO | | | |
| Parameters shall be declared for medium-te | emperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters | | | |
| shall be declared for low-temperature applic | ration. | | | |

Parameters shall be declared for average, colder and warmer climate conditions

| Item | Symbol | Value | Unit |
|--|-------------------|----------------|-------------|
| Rated heat output (*) | Prated | 11 | kW |
| Declared capacity for heating for and outdoor temperature Tj | part load at | indoor tempera | ature 20 °C |
| Tj = -7℃ | Pdh | 9.7 | kW |
| Tj = 2℃ | Pdh | 6.2 | kW |
| Tj = 7℃ | Pdh | 4.1 | kW |
| Tj = 12℃ | Pdh | 3.0 | kW |
| Tj = bivalent temperature | Pdh | 9.7 | kW |
| Tj = operating limit | Pdh | 11.5 | kW |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW |
| Bivalent temperature | T _{biv} | -10 | °C |
| Cycling interval capacity for heating | P _{cych} | - | kW |
| Degradation co-efficient (**) | C_{dh} | 0.9 | ı |
| Power consumption in modes oth | er than active | e mode | |
| off mode | P _{off} | 0.027 | kW |
| standby mode | P _{sb} | 0.027 | kW |
| thermostat-off mode | P _{to} | 0.006 | kW |
| crankcase heater mode | P _{ck} | 0.001 | kW |

| 131 | % | | |
|----------------------|--|--|--|
| | part load at | | |
| 2.00 | - | | |
| 3.21 | - | | |
| 4.67 | - | | |
| 5.68 | - | | |
| 2.00 | - | | |
| 1.76 | - | | |
| - | - | | |
| -10 | °C | | |
| = | % | | |
| 49 | °C | | |
| Supplementary heater | | | |
| 0 | kW | | |
| Electrical heating | | | |
| | 3.21 4.67 5.68 2.00 1.76 - -10 c or - c 49 | | |

| Other items | | | |
|---|-----------------|----------|--------------|
| Capacity control | | variable | |
| Sound power level, indoors/ outdoors | L _{WA} | -/68 | dB |
| Annual energy consumption | Q _{HE} | 6757 | kWh or GJ |

| For air-to-water heat pumps: Rated air flow rate, outdoors | _ | 6150 | 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 | | - | | Water heating energy efficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{elec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |

Contact details

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, 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.

| Technical parameters | | | |
|---|----------------|--|--|
| Model(s): | MHC-V12W/D2RN1 | | |
| 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: | YES | | |
| 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. | | | |

| Symbol | Value | Unit |
|--------------------|---|---|
| Prated | 11 | kW |
| part load at | indoor tempera | ature 20 °C |
| Pdh | 7.8 | kW |
| Pdh | 4.5 | kW |
| Pdh | 2.9 | kW |
| Pdh | 2.4 | kW |
| Pdh | 9.8 | kW |
| Pdh | 7.3 | kW |
| Pdh | 9.3 | kW |
| T _{biv} | -14 | °C |
| P _{cy ch} | - | kW |
| C _{dh} | 0.9 | |
| er than active | mode | |
| P _{off} | 0.027 | kW |
| P_{sb} | 0.027 | kW |
| P _{to} | 0.006 | kW |
| P _{ck} | 0.001 | kW |
| | Prated Part load at Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd | Prated 11 part load at indoor temperate Pdh 7.8 Pdh 4.5 Pdh 2.9 Pdh 2.4 Pdh 9.8 Pdh 7.3 Pdh 9.3 T _{biv} -14 P _{cych} - C _{dh} 0.9 er than active mode P _{off} P _{sb} 0.027 P _{to} 0.006 |

| Item | Symbol | Value | Unit |
|---|---------------------------------|-----------------|--------------|
| Seasonal space heating energy efficiency | ης | 108 | % |
| Declared coefficient of perform | ance or primary e | nergy ratio for | part load at |
| indoor temperature 20 °C and | outdoor temperatur | e Tj | |
| Tj = - 7 ℃ | COPd | 2.32 | - |
| Tj = 2℃ | COPd | 3.35 | - |
| Tj = 7 ℃ | COPd | 4.44 | - |
| Tj = 12℃ | COPd | 4.73 | - |
| Tj = bivalent temperature | COPd | 1.89 | - |
| Tj = operating limit | COPd | 1.40 | - |
| For air-to-water heat pumps: Tj = -15 $^{\circ}$ C | COPd | 1.80 | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | -20 | °C |
| Cycling interval efficiency | COP _{cyc} or PERcyc | - | % |
| Heating water operating limit temperature | W _{TOL} | 40 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | Psup | 4.4 | kW |
| Type of energy input | Electrical heating | | |

| Other items | | | |
|---|-----------------|----------|--------------|
| Capacity control | | variable | |
| Sound power level, indoors/ outdoors | L _{WA} | -/68 | dB |
| Annual energy consumption | Q _{HE} | 10958 | kWh or GJ |

| For air-to-water heat pumps: Rated air flow rate, outdoors | _ | 6150 | m³/h |
|--|---|------|------|
| For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | 1 | m³/h |

| For heat pump com | bination heater: |
|-------------------|------------------|
|-------------------|------------------|

| Declared load profile | - | | | Water heating energy efficiency | η_{wh} | - | % | |
|--------------------------------|-------------------|---|-----|---------------------------------|-------------------------|-------------------|---|-----|
| Daily electricity consumption | Q _{elec} | - | kWh | | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | | Annual fuel consumption | AFC | - | GJ |

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- (*) 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.

| del(s): | | | | | | | |
|--|--------------------------|----------------|-----------------------|-------------------------|-----------------------|------------|--|
| | Model(s): MHC-V12W/D2RN1 | | | | | | |
| to-water heat pump: | YES | YES | | | | | |
| ter-to-water heat pump: | NO | NO | | | | | |
| rine-to-water heat pump: NO | | | | | | | |
| -temperature heat pump: | NO | | | | | | |
| Equipped with a supplementary heater: YES | | | | | | | |
| leat pump combination heater: NO | | | | | | | |
| ameters shall be declared for medium-te Il be declared for low-temperature applic | | ation, except | for low-temperature h | neat pumps. For low-ten | nperature heat pumps, | parameters | |
| ameters shall be declared for average, o | colder and warme | er climate con | ditions | - | | | |

| 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℃ | Pdh | - | kW | | | | | |
| Tj = 2°C | Pdh | 12.2 | kW | | | | | |
| Tj = 7°C | Pdh | 8.0 | kW | | | | | |
| Tj = 12℃ | Pdh | 3.4 | kW | | | | | |
| Tj = bivalent temperature | Pdh | 8.0 | kW | | | | | |
| Tj = operating limit | Pdh | 12.2 | kW | | | | | |
| For air-to-water heat pumps: $T_j = -15^{\circ}C$ | Pdh | - | kW | | | | | |
| Bivalent temperature | T _{biv} | 7 | °C | | | | | |
| Cycling interval capacity for heating | P _{cych} | - | kW | | | | | |
| Degradation co-efficient (**) | C _{dh} | 0.9 | | | | | | |
| Power consumption in modes other | er than active | mode | | | | | | |
| off mode | P _{off} | 0.017 | kW | | | | | |
| standby mode | P _{sb} | 0.017 | kW | | | | | |
| thermostat-off mode | P _{to} | 0.006 | kW | | | | | |
| crankcase heater mode | P _{ck} | 0.018 | kW | | | | | |

| Item | Symbol | Value | Unit | | | | | |
|--|---------------------------------|-------|------|--|--|--|--|--|
| Seasonal space heating energy efficiency | ηs | 149 | % | | | | | |
| Declared coefficient of performance or primary energy ratio for part load at | | | | | | | | |
| indoor temperature 20 °C and outdoor temperature Tj | | | | | | | | |
| Tj = -7℃ | COPd | - | - | | | | | |
| Tj = 2℃ | COPd | 2.42 | - | | | | | |
| Tj = 7℃ | COPd | 3.50 | - | | | | | |
| Tj = 12℃ | COPd | 5.25 | - | | | | | |
| Tj = bivalent temperature | COPd | 3.50 | - | | | | | |
| Tj = operating limit | COPd | 2.42 | - | | | | | |
| For air-to-water heat pumps: Tj = -15 $^{\circ}$ C | COPd | - | - | | | | | |
| For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C | | | | | |
| Cycling interval efficiency | COP _{cyc} or PERcyc | - | % | | | | | |
| Heating water operating limit temperature | W _{TOL} | 60 | °C | | | | | |
| Supplementary heater | | | | | | | | |
| Rated heat output (**) | Psup | 0.3 | kW | | | | | |
| Type of energy input Electrical heating | | | | | | | | |

| Other items | | | | | | | | |
|---|-----------------|------|--------------|--|--|--|--|--|
| Capacity control | variable | | | | | | | |
| Sound power level, indoors/ outdoors | L _{WA} | -/68 | dB | | | | | |
| Annual energy consumption | Q _{HE} | 4386 | kWh or GJ | | | | | |

Annual electricity consumption

| For air-to-water heat pumps: Rated air flow rate, outdoors | _ | 6150 | m³/h |
|---|---|------|-------------------|
| | | | |
| For water- or brine-to-water | | | |
| heat pumps: Rated brine or | | _ | m ³ /h |
| water flow rate, outdoor heat | _ | | , |
| exchanger | | | |

AFC

GJ

| For heat pump combination heater: | | | | | | | | |
|-----------------------------------|-------------------|---|-----|---------------------------------|------------------------|-------------------|---|-----|
| Declared load profile | - | | | Water heating energy efficiency | η_{wh} | - | % | |
| Daily electricity consumption | Q _{elec} | - | kWh | | Daily fuel consumption | Q _{fuel} | - | kWh |
| | | | | | | | | |

kWh

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AEC

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Annual fuel consumption

^(*) 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.