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Midea®

MHC-V16W/D2N1

| | 55°C | 35°C |
|---|---|---|
| | A++ | A++ |

A++
A+
A
B
C
D
E
F
G

-- dB

71 dB

| | | |
|---|---|---|
| ■ | 15 | 16 |
| ■ | **14** | **16** |
| ■ | 15 | 15 |
| | kW | kW |

2015

811/2013

## Technical parameters

| | |
|---|---|
| Model(s): | MHC-V16W/D2N1 |
| 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.

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

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 14 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | 12.3 | kW |
| Tj = 2℃ | Pdh | 7.9 | kW |
| Tj = 7℃ | Pdh | 5.1 | kW |
| Tj = 12℃ | Pdh | 2.1 | kW |
| Tj = bivalent temperature | Pdh | 12.3 | kW |
| Tj = operating limit | Pdh | 10.2 | kW |
| For air-to-water heat pumps: Tj = -15℃ | 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 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 | 125 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | COPd | 2.02 | - |
| Tj = 2℃ | COPd | 3.05 | - |
| Tj = 7℃ | COPd | 4.57 | - |
| Tj = 12℃ | COPd | 4.77 | - |
| Tj = bivalent temperature | COPd | 2.02 | - |
| Tj = operating limit | COPd | 1.68 | - |
| For air-to-water heat pumps: Tj = -15℃ | COPd | - | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval efficiency | $COP_{cyc}$ or PERcyc | - | % |
| Heating water operating limit temperature | $W_{TOL}$ | 49 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | Psup | 3.7 | kW |
| Type of energy input | Electric heating | | |

| Other items | | | |
|---|---|---|---|
| Capacity control | variable | | |
| Sound power level, indoors/ outdoors | $L_{WA}$ | -/71 | dB |
| Annual energy consumption | $Q_{HE}$ | 8973 | kWh or GJ |

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

| For heat pump combination heater: | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Declared load profile** | - | | | **Water heating energy efficiency** | $\eta_{wh}$ | - | % |
| 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

| | |
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| 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.

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

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 15 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | 8.8 | kW |
| Tj = 2℃ | Pdh | 5.3 | kW |
| Tj = 7℃ | Pdh | 3.4 | kW |
| Tj = 12℃ | Pdh | 2.5 | kW |
| Tj = bivalent temperature | Pdh | 10.6 | kW |
| Tj = operating limit | Pdh | 6.4 | kW |
| For air-to-water heat pumps: Tj = -15℃ | Pdh | 9 | kW |
| Bivalent temperature | $T_{biv}$ | -11 | °C |
| Cycling interval capacity for heating | $P_{cych}$ | - | kW |
| Degradation co-efficient (**) | $C_{dh}$ | 0.9 | -- |
| Power consumption in modes other 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 | 99 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | COPd | 2.20 | - |
| Tj = 2℃ | COPd | 3.20 | - |
| Tj = 7℃ | COPd | 4.52 | - |
| Tj = 12℃ | COPd | 6.41 | - |
| Tj = bivalent temperature | COPd | 1.86 | - |
| Tj = operating limit | COPd | 1.16 | - |
| For air-to-water heat pumps: Tj = -15℃ | COPd | 1.64 | - |
| 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 | 8.5 | kW |
| Type of energy input | Electrical heating | | |

| Other items | | | |
|---|---|---|---|
| Capacity control | variable | | |
| Sound power level, indoors/ outdoors | $L_{WA}$ | -/71 | dB |
| Annual energy consumption | $Q_{HE}$ | 14511 | 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 | – | - | $m^3/h$ |

| For heat pump combination heater: | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Declared load profile** | - | | | **Water heating energy efficiency** | $\eta_{wh}$ | - | % |
| 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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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

## Technical parameters

| | |
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| Model(s): | MHC-V16W/D2N1 |
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| 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.

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

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 14 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | - | kW |
| Tj = 2℃ | Pdh | 14.3 | kW |
| Tj = 7℃ | Pdh | 9.2 | kW |
| Tj = 12℃ | Pdh | 4.2 | kW |
| Tj = bivalent temperature | Pdh | 9.2 | kW |
| Tj = operating limit | Pdh | 14.3 | kW |
| For air-to-water heat pumps: Tj = -15℃ | 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 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 | 163 | % |
| 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 | 2.27 | - |
| Tj = 7℃ | COPd | 3.33 | - |
| Tj = 12℃ | COPd | 5.62 | - |
| Tj = bivalent temperature | COPd | 3.33 | - |
| Tj = operating limit | COPd | 2.27 | - |
| For air-to-water heat pumps: Tj = -15℃ | 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 | 0.4 | kW |
| Type of energy input | Electrical heating | | |

| Other items | | | |
|---|---|---|---|
| Capacity control | variable | | |
| Sound power level, indoors/ outdoors | $L_{WA}$ | -/71 | dB |
| Annual energy consumption | $Q_{HE}$ | 4594 | kWh or GJ |

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

| For heat pump combination heater: | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Declared load profile** | - | | | **Water heating energy efficiency** | $\eta_{wh}$ | - | % |
| 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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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.