

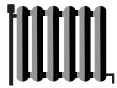


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Midea

MC-SU75M-RN8L-B



35°C



A ++

-- dB

86 dB

2019

- 38 kW
- 48 kW
- 48 kW

811/2013



| Information requirements for comfort chillers | | | | | | | |
|---|---|-------|---------------------------------|--|--------------|-------|-----------------------|
| Model(s): | MC-SU75M-RN8L-B | | | | | | |
| Outdoor side heat exchanger of chiller: | Air | | | | | | |
| 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 | $P_{rated,c}$ | 70.00 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 166 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j = +35^\circ\text{C}$ | P_{dc} | 68.74 | kW | $T_j = +35^\circ\text{C}$ | EER_d | 2.55 | -- |
| $T_j = +30^\circ\text{C}$ | P_{dc} | 51.77 | kW | $T_j = +30^\circ\text{C}$ | EER_d | 3.53 | -- |
| $T_j = +25^\circ\text{C}$ | P_{dc} | 32.76 | kW | $T_j = +25^\circ\text{C}$ | EER_d | 4.84 | -- |
| $T_j = +20^\circ\text{C}$ | P_{dc} | 17.49 | kW | $T_j = +20^\circ\text{C}$ | EER_d | 6.32 | -- |
| Degradation co-efficient for chillers (*) | C_{dc} | | -- | | | | |
| Power consumption in modes other than 'active mode' | | | | | | | |
| Off mode | P_{OFF} | 0.08 | kW | Crankcase heater mode | P_{CK} | 0 | kW |
| Thermostat-off mode | P_{TO} | 0.556 | kW | Standby mode | P_{SB} | 0.35 | kW |
| Other items | | | | | | | |
| Capacity control | Variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | -- | 28500 | m_3/h |
| Sound power level, indoors/outdoors | L_{WA} | --/86 | dB | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -- | -- | m_3/h |
| Emissions of nitrogen oxides (if applicable) | $\text{NO}_x(**)$ | -- | mg/kWh input GCV | | | | |
| GWP of the refrigerant | -- | 675 | kg CO_2 eq (100 years) | | | | |
| Standard rating conditions used: | Low temperature application | | | | | | |
| Contact details | GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China. | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**) From 26 September 2018. | | | | | | | |

| Information requirements for heat pump space heaters and heat pump combination heaters | | | | | | | |
|--|--|----------|-------|--|---|-------|-------------------|
| Model(s): | MC-SU75M-RN8L-B | | | | | | |
| Air-to-water heat pump: | | | | | | | [yes] |
| Water-to-water heat pump: | | | | | | | [yes/no] |
| Brine-to-water heat pump: | | | | | | | [yes/no] |
| Low-temperature heat pump: | | | | | | | [yes/no] |
| Equipped with a supplementary heater: | | | | | | | [yes/no] |
| Heat pump combination heater: | | | | | | | [yes/no] |
| For low-temperature heat pumps, parameters shall be declared for low-temperature application. Otherwise, parameters shall be declared for medium-temperature application. Parameters shall be declared for average climate conditions. | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output ⁽³⁾ at T _{designh} = -10 (-11) °C | P _{rated} = P _{designh} | 47.4 | kW | Seasonal space heating energy efficiency | η _s | 155 | % |
| Seasonal coefficient of performance | SCOP | 3.95 | -- | Active mode coef. of performance | SCOP _{on} | -- | -- |
| | | | | Net seasonal coef. of performance | SCOP _{net} | -- | -- |
| T _j = -7°C | P _d | 43.20 | kW | T _j = -7°C | COP _d | 2.70 | -- |
| T _j = +2°C | P _d | 26.64 | kW | T _j = +2°C | COP _d | 3.75 | -- |
| T _j = +7°C | P _d | 24.71 | kW | T _j = +7°C | COP _d | 5.42 | -- |
| T _j = +12°C | P _d | 21.62 | kW | T _j = +12°C | COP _d | 7.14 | -- |
| T _j = bivalent temperature | P _d | 43.20 | kW | T _j = bivalent temperature | COP _d | 2.70 | -- |
| T _j = operation limit temperature | P _d | 45.75 | kW | T _j = operation limit temperature | COP _d | 2.21 | -- |
| For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C) | P _d | -- | kW | For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C) | COP _d | -- | -- |
| Bivalent temperature (maximum +2°C) | T _{biv} | -7 | °C | For air-to-water HP : Operation limit temperature _(maximum-7°C) | TOL | -10 | °C |
| Cycling interval capacity for heating at T _j = -7°C | P _{cyh} | -- | kW | Heating water operating limit temperature | WTOL | -- | °C |
| Degradation co-efficient ⁽⁴⁾ at T = -7°C | C _d | 0.9 | -- | Cycling interval efficiency at T _j = +7°C | COP _{cyh} | -- | -- |
| Cycling interval capacity for heating at T _j = +2°C | P _{cyh} | -- | kW | Cycling interval capacity for heating at T _j = +12°C | COP _{cyh} | -- | -- |
| Degradation coefficient ⁽⁴⁾ at T = +2°C | C _d | -- | -- | Cycling interval efficiency at T _j = +7°C | COP _{cyh} | -- | -- |
| Cycling interval capacity for heating at T _j = +7°C | P _{cyh} | -- | kW | Cycling interval capacity for heating at T _j = +12°C | COP _{cyh} | -- | -- |
| Degradation coefficient ⁽⁴⁾ at T _j = +7°C | C _d | -- | -- | | | | |
| Cycling interval capacity for heating at T _j = +12°C | P _{cyh} | -- | kW | | | | |
| Degradation coefficient ⁽⁴⁾ at T _j = +12°C | C _d | -- | -- | | | | |
| Power consumption in modes other than active mode | | | | Supplementary heater (to be declared even if not provided in the unit) | | | |
| Off mode | P _{OFF} | 0.08 | kW | Rated heat output ⁽³⁾ | P _{sup} = sup(T _j) | -- | kW |
| Thermostat-off mode | P _{TO} | 0.35 | kW | Type of energy input | | | |
| Standby mode | P _{SB} | 0.08 | kW | Outdoor heat exchanger | | | |
| Crankcase heater mode | P _{CK} | 0 | kW | For air-to-water HP: Rated air flow rate | Q _{airsource} | 28500 | m ³ /h |
| Other items | | | | For water-to-water: Rated water flow rate | Q _{watersource} | -- | m ³ /h |
| Capacity control | Fixed/Variable | Variable | | For brine-to-water: Rated brine flow rate | Q _{brinesource} | -- | m ³ /h |
| Sound power level, indoors | L _{WA} | -- | dB(A) | | | | |
| Sound power level, outdoors | L _{WA} | 86 | dB(A) | | | | |
| Contact details | Name and address of the manufacturer or its authorised representative. | | | | | | |
| (1) For heat pump space heaters and heat pump combination heaters, the rated heat output P _{rated} is equal to the design load for heating P _{designh} , and the rated heat output of a supplementary heater P _{sup} is equal to the supplementary capacity for heating sup(T _j). | | | | | | | |
| (2) If C _d is not determined by measurement then the default degradation coefficient is C _d = 0.9. | | | | | | | |