



APPLICABLE MODELS AND MAIN PARAMETERS

| | Model | MC-SU30M-RN8L | MC-SU60M-RN8L | | | |
|---------------------------------------|---|--|----------------|--|--|--|
| Cooling capacity | kW | 27.5 | 55 | | | |
| Heating capacity | kW | 32.0 | 62 | | | |
| Standard cooling input | kW | 11.0 | 23 | | | |
| Cooling rated current | A | 17.0 | 35.5 | | | |
| Standard heating input | kW | 10.7 | 21.5 | | | |
| Heating rated current | A | 16.5 | 33.1 | | | |
| Power supply | | 380-415V 3N~ 50Hz | | | | |
| Operation control | Control of wired controller | ler, auto startup, running state display, failure alert etc. | | | | |
| Safety device | High or low pressure switch, freeze-proof device, water flow volume controller, Overcurrent device, power phase sequence device etc. | | | | | |
| Refrigerant | Туре | R-32 | | | | |
| Water pipe system | Charging volume kg | 7.9 | 14.0 | | | |
| | Waterflow volume m ³ /h | 5.0 | 9.8 | | | |
| | Hydraulic resistance lose kPa | 150 | 200 | | | |
| | Water side heat exchanger | Plate heat exchanger | | | | |
| | Max. pressure MPa | 1.0 | | | | |
| | Min. pressure MPa | 0.05 | | | | |
| | Inlet and outlet pipe dia. | DN40 | DN50 | | | |
| Air side heat exchanger | Туре | Fin coil model | | | | |
| | Air flow volume m ³ /h | 12500 | 24000 | | | |
| Outline dimension N.W. of the unit | L mm | 1870 | 2220 | | | |
| | W mm | 1000 | 1055 | | | |
| | H mm | 1175 | 1325 | | | |
| Net Weight | kg | 315 | 515 | | | |
| Operation Weight | kg | 325 | 525 | | | |
| Packing dimension | L × W × H mm | 1910×1035×1370 | 2250×1090×1530 | | | |

| Infor | mation req | uireme | nts for co | mf | ort chillers | | | | | |
|--|--|------------------------------------|---|-----|--|------------------|--------|------|--|--|
| Model (s): | MC-SU60M-RN8L | | | | | | | | | |
| Outdoor side heat exchanger of chiller: | Air to water | | | | | | | | | |
| Indoor side heat exchanger chiller: | Water | | | | | | | | | |
| Туре: | Compressor driven vapour compression | | | | | | | | | |
| Driver of compressor: | | Electric motor | | | | | | | | |
| Item | Symbol | Value | Unit | | Item | Symbol | Value | Unit | | |
| Rated cooling capacity | P _{rated,c} | 55.25 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 158.06 | % | | |
| Declared cooling capacity for part load at give | en outdoor t | outdoor temperature T _j | | | Declared energy efficiency ratio for part load at given outdoor temperature T _j | | | | | |
| T _j = + 35°C | P _{dc} | 55.25 | kW | | $T_{j} = + 35^{\circ}C$ | EER _d | 2.58 | | | |
| $T_{j} = + 30^{\circ}C$ | P _{dc} | 40.54 | kW | | $T_{j} = + 30^{\circ}C$ | EER _d | 3.45 | | | |
| T _j = + 25°C | P _{dc} | 25.43 | kW | | T _j = + 25°C | EER₀ | 4.48 | | | |
| T _j = + 20°C | P _{dc} | 11.30 | kW | | T _j = + 20°C | EER₀ | 4.83 | | | |
| Degradation co-efficient for chillers (*) | C _{dc} | 0.9 | | | | | | | | |
| Power | consumptior | n in mod | es other th | har | n 'active mode' | | | | | |
| Off mode | POFF | 0.035 | kW | | Crankcase heater mode | Р _{ск} | 0.000 | kW | | |
| Thermostat-off mode | Рто | 0.035 | kW | | Standby mode | P _{SB} | 0.035 | kW | | |
| | | Other | items | | | | | | | |
| Capacity control | Variable | | | 0 | For air-to-water comfort chillers: air flow rate, outdoor measured | | 24000 | m³/h | | |
| Sound power level, indoors/outdoors | L _{WA} | -/86 | dB | | For water / brine-to- water | | | | | |
| Emissions of nitrogen oxides (if applicable) | NO _x (**) | | mg/ kWh input GCV | ۱ | chillers: Rated brine or water flow rate, outdoor side heat exchanger | | | m³/h | | |
| 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 $_{\rm dc}$ is not determined by measurement (**) From 26 September 2018. | then the def | fault deg | radation c | coe | fficient of chillers shall be 0 |),9. | | | | |

| Information require | ments for heat | pump spa | ce heat | ers and heat pump combination h | eaters | | | |
|---|--|------------|-----------|--|--------------------------|----------------------|----------|--|
| Model (s): | | panip ope | | MC-SU60M-RN8L | | | | |
| Air-to-water heat pump: | | | | | | [yes] | | |
| Water-to-water heat pump: | | | | | | | [yes/no] | |
| Brine-to-water heat pump: | | | | | | | /no] | |
| Low-temperature heat pump: | | | | | | | | |
| Equipped with a supplementary heater: | | | | | | | | |
| Heat pump combination heater: | | | | | | [yes/no] [yes/no] | | |
| For low-temperature heat pumps, par | ameters shall | be declare | d for lov | w-temperature application. Other | wise, paran | | | |
| declared for medium-temperature app | | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output (3) at Tdesignh = -10 (-11) °C | Prated =Pdesignh | 36.15 | kW | Seasonal space heating energy efficiency | η_{s} | 145.89 | % | |
| Seasonal coefficient of performance | SCOP | 3.72 | | Active mode coef. of performance | SCOPon | | | |
| | 1 | | | Net seasonal coef. of performance | $SCOP_{net}$ | | | |
| | | | | | | | | |
| T _j = -7°C | Pdh | 31.98 | kW | $T_j = -7^{\circ}C$ | COPd | 2.53 | | |
| $T_i = +2^{\circ}C$ | Pdh | 20.24 | kW | $T_j = +2^{\circ}C$ | COPd | 3.59 | | |
| $T_j = +7^{\circ}C$ | Pdh | 13.05 | kW | $T_j = +7^{\circ}C$ | COPd | 4.85 | | |
| $T_j = +12^{\circ}C$ | Pdh | 14.21 | kW | $T_j = +12^{\circ}C$ | COPd | 5.67 | | |
| T _j = bivalent temperature | Pdh | 31.98 | kW | T_j = bivalent temperature | COPd | 2.53 | | |
| T _j = operation limit temperature | Pdh | 34.92 | kW | T _j =operation limit temperature | COPd | 2.23 | | |
| For air-to-water heat pumps: T _i = – 15 °C (if TOL < – 20 °C) | Pdh | | kW | For air-to-water heat pumps: T _j =–15°C (if TOL<–20°C) | COPd | | | |
| Bivalent temperature (maximum +2°C) | Tbiv | -7 | °C | For air-to-water HP: | TOL | -10 | °C | |
| Cycling interval capacity for heating at T _i = -7°C | Pcych | | kW | Operation limit temperature (maximum-7°C) | | -10 | | |
| Degradation coefficient (4) at T= -7°C | Cdh | | | Lippting water exercting limit | | | | |
| Cycling interval capacity for heating at T _i =+2°C | Pcych | | kW | Heating water operating limit temperature | WTOL | | °C | |
| Degradation coefficient ⁽⁴⁾ at T= +2°C | Cdh | | | Cycling interval efficiency at T _i = +7°C | COPcyc | | | |
| Cycling interval capacity for heating at T _i = +7°C | Pcych | | kW | Cycling interval capacity for heating at $T_i = +12^{\circ}C$ | COPcyc | | | |
| Degradation coefficient ⁽⁴⁾ at $T_i = +7^{\circ}C$ | Cdh | | | | | | | |
| Cycling interval capacity for heating at T =+12°C | Pcych | | kW | Cycling interval efficiency at T _j = +7°C | COPcyc | | | |
| Degradation coefficient ⁽⁴⁾ at $T_j = +12^{\circ}C$ | Cdh | | | Cycling interval capacity for | | | | |
| Power consumption in modes | 1 | ive mode | | heating at $T_i = +12^{\circ}C$ | COPcyc | | | |
| Off mode | f mode P. 0.030 kW Supplementary heater (to be declare | | | | | even if | not | |
| | | | | provided in t | | | | |
| Thermostat-off mode | P _{to} | 0.030 | kW | | Psup =sup | | kW | |
| Standby mode | P _{SB} | 0.030 | kW | 51 05 1 | (Tj) | | | |
| Crankcase heater mode | Рск | 0.000 | kW | Outdoor heat e | exchanger | | | |
| Other ite | | T | | For air-to-water HP: Rated air flow rate | Q _{airsource} | 24000 | m₃/h | |
| | Fixed/Variable | Varia | 1 | For water-to-water: Rated | Q _{watersource} | | m₃/h | |
| Sound power level, indoors | L _{WA} | Х | dB (A) | | | | | |
| Sound power level, outdoors | L _{WA} | 86 | dB (A) | DITIE TOW TALE | Q brinesource | | m₃/h | |
| | | | | turer or its authorised representa | | | | |
| For heat pump space heaters and heating Pdesignh, and the rated heat sup (Tj). If Cdh is not determined by measu | output of a su | pplementa | ary heate | er Psup is equal to the suppleme | | | | |