

Subtype M thermal A series semi mono 4 6 kW

Certificate Holder	GD Midea Heating & Ventilating Equipment Co., Ltd.
Address	Penglai Industry Road
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City	Beijiao, Shunde, Foshan
Country	CN
Certification Body	BRE Global Limited
Subtype title	M thermal A series semi mono 4 6 kW
Registration number	041-K007-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	22.08.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

Model MHP-V4WD2N8+HB-P100CG,HB-P100CD30G

Model name	MHP-V4WD2N8+HB-P100CG,HB-P100CD30G
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	125 %
Prated	5.40 kW	4.20 kW
SCOP	4.71	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.75 kW	3.76 kW
COP Tj = -7°C	3.10	2.10
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.31 kW
COP Tj = +2°C	4.64	3.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.87 kW	2.85 kW
COP Tj = +7°C	5.92	4.27
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.44 kW	1.26 kW
COP Tj = 12°C	7.84	5.41
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.75 kW	3.76 kW

COP Tj = Tbiv	3.10	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.26 kW	3.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	0.97 kW
Annual energy consumption Qhe	2356 kWh	2739 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	152 %	94 %
Prated	4.40 kW	3.10 kW
SCOP	3.88	2.42
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	2.63 kW	1.97 kW
COP Tj = -7°C	3.34	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.69 kW	1.17 kW
COP Tj = +2°C	4.72	2.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.11 kW	0.93 kW
COP Tj = +7°C	5.26	3.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.39 kW	1.31 kW
COP Tj = 12°C	7.46	6.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.57 kW	2.53 kW
COP Tj = Tbiv	2.47	1.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.62 kW	1.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84	0.87

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.76 kW	1.71 kW
Annual energy consumption Qhe	2776 kWh	3169 kWh
Pdh Tj = -15°C (if TOL	3.57	2.53
COP Tj = -15°C (if TOL	2.47	1.61
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	248 %	156 %
Prated	5.40 kW	4.80 kW
SCOP	6.28	3.97
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.23 kW	4.66 kW
COP Tj = +2°C	3.86	2.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.48 kW	3.09 kW
COP Tj = +7°C	5.79	3.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.58 kW	1.40 kW
COP Tj = 12°C	7.69	4.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.48 kW	3.09 kW
COP Tj = Tbiv	5.79	3.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.23 kW	4.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.86	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W

PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.15 kW
Annual energy consumption Q _{he}	1154 kWh	1622 kWh

Model MHP-V6WD2N8+HB-P100CG,HB-P100CD30G

Model name	MHP-V6WD2N8+HB-P100CG,HB-P100CD30G
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	132 %
Prated	6.00 kW	5.50 kW
SCOP	4.79	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	4.85 kW
COP Tj = -7°C	3.02	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.79 kW	2.99 kW
COP Tj = +2°C	4.74	3.36
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.33 kW	1.99 kW
COP Tj = +7°C	6.45	4.34
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.35 kW	1.22 kW
COP Tj = 12°C	7.71	5.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	4.91 kW

COP Tj = Tbiv	3.02	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	4.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.24 kW
Annual energy consumption Qhe	1251 kWh	3355 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	160 %	104 %
Prated	5.50 kW	4.00 kW
SCOP	4.14	2.67
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.30 kW	2.54 kW
COP Tj = -7°C	3.46	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.98 kW	1.49 kW
COP Tj = +2°C	5.01	3.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.40 kW	0.94 kW
COP Tj = +7°C	7.45	3.63
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.40 kW	1.32 kW
COP Tj = 12°C	7.45	6.11
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.44 kW	3.26 kW
COP Tj = Tbiv	2.45	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.86	1.00

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.17 kW	2.16 kW
Annual energy consumption Qhe	3293 kWh	3700 kWh
Pdh Tj = -15°C (if TOL	4.44	3.26
COP Tj = -15°C (if TOL	2.45	1.75
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	253 %	158 %
Prated	6.00 kW	5.00 kW
SCOP	6.39	4.02
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.82 kW	4.85 kW
COP Tj = +2°C	3.84	2.40
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.85 kW	3.18 kW
COP Tj = +7°C	5.77	3.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.74 kW	1.53 kW
COP Tj = 12°C	7.99	5.06
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.85 kW	3.18 kW
COP Tj = Tbiv	5.77	3.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.82 kW	4.85 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.84	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W

PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.17 kW	0.16 kW
Annual energy consumption Q _{he}	1251 kWh	1644 kWh