

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
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.10 kW	4.20 kW
El input	0.82 kW	1.49 kW
COP	5.00	2.80

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 %
P _{rated}	5.40 kW	4.20 kW
SCOP	4.71	3.20
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh} T _j = -7 °C	4.75 kW	3.76 kW
COP T _j = -7 °C	3.10	2.10
C _{dh} T _j = -7 °C	0.900	0.900
P _{dh} T _j = +2 °C	2.96 kW	2.31 kW
COP T _j = +2 °C	4.64	3.20
C _{dh} T _j = +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
ηs	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
ηs	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 Qhe	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.25 kW	5.80 kW
El input	1.28 kW	2.03 kW
COP	4.90	2.85

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
ηs	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
ηs	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 Qhe	1251 kWh	1644 kWh