

Subtype M thermal A series semi mono 8 10 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 8 10 kW
Registration number	041-K007-19
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-V10WD2N8+HB-P100CG,HB-P100CD30G,HB-P100CDS60G,HB-P100CDS90G

Model name	MHP-V10WD2N8+HB-P100CG,HB-P100CD30G,HB-P100CDS60G,HB-P100CDS90G
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	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	132 %
Prated	9.00 kW	7.50 kW
SCOP	5.10	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.97 kW	6.59 kW
COP Tj = -7°C	3.18	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.09 kW	4.10 kW
COP Tj = +2°C	4.92	3.28
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.26 kW	2.68 kW
COP Tj = +7°C	6.94	4.37
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.61 kW	1.52 kW
COP Tj = 12°C	8.38	5.47
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	7.97 kW	6.65 kW
COP Tj = Tbiv	3.18	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.25 kW	5.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	1.78
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	1.75 kW	2.34 kW
Annual energy consumption Qhe	3649 kWh	4578 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	165 %	112 %
Prated	7.60 kW	6.50 kW
SCOP	4.20	2.85
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.71 kW	4.11 kW
COP Tj = -7°C	3.51	2.46
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.86 kW	2.46 kW
COP Tj = +2°C	5.12	3.33
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.86 kW	1.57 kW
COP Tj = +7°C	6.87	4.02
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.61 kW	1.42 kW
COP Tj = 12°C	7.77	5.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.17 kW	5.26 kW
COP Tj = Tbiv	2.58	1.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.44 kW	2.55 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.89	1.16
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	3.15 kW	3.90 kW
Annual energy consumption Qhe	4431 kWh	5555 kWh
Pdh Tj = -15°C (if TOL	6.17	5.26
COP Tj = -15°C (if TOL	2.58	1.92
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	275 %	176 %
Prated	8.50 kW	8.40 kW
SCOP	6.84	4.33
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.33 kW	7.89 kW
COP Tj = +2°C	3.79	2.53
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.44 kW	5.41 kW
COP Tj = +7°C	6.09	4.01
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.57 kW	2.46 kW
COP Tj = 12°C	8.88	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.44 kW	5.41 kW
COP Tj = Tbiv	6.09	4.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.33 kW	7.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.79	2.53
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	0.16 kW	0.53 kW
Annual energy consumption Qhe	1630 kWh	2515 kWh

Model MHP-V8WD2N8+HB-P100CG,HB-P100CD30G,HB-P100CDS60G,HB-P100CDS90G

Model name	MHP-V8WD2N8+HB-P100CG,HB-P100CD30G,HB-P100CDS60G,HB-P100CDS90G
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	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	127 %
Prated	8.00 kW	6.50 kW
SCOP	5.10	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	5.65 kW
COP Tj = -7°C	3.29	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.56 kW	3.62 kW
COP Tj = +2°C	4.99	3.19
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.84 kW	2.33 kW
COP Tj = +7°C	6.67	4.17
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.59 kW	1.33 kW
COP Tj = 12°C	8.15	5.11
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	7.05 kW	5.71 kW
COP Tj = Tbiv	3.29	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.29 kW	4.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	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	1.67 kW	1.76 kW
Annual energy consumption Qhe	3225 kWh	4067 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	165 %	107 %
Prated	6.80 kW	5.50 kW
SCOP	4.20	2.72
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.34 kW	3.70 kW
COP Tj = -7°C	3.56	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.61 kW	2.10 kW
COP Tj = +2°C	5.04	3.15
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.59 kW	1.36 kW
COP Tj = +7°C	6.30	3.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.61 kW	1.41 kW
COP Tj = 12°C	7.77	5.38
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.54 kW	4.50 kW
COP Tj = Tbiv	2.75	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.88 kW	2.55 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.86	1.16
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	2.94 kW	2.97 kW
Annual energy consumption Qhe	3985 kWh	4964 kWh
Pdh Tj = -15°C (if TOL	5.54	4.50
COP Tj = -15°C (if TOL	2.75	1.82
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	271 %	170 %
Prated	8.00 kW	8.20 kW
SCOP	6.84	4.33
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.45 kW	7.38 kW
COP Tj = +2°C	3.92	2.53
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.14 kW	5.38 kW
COP Tj = +7°C	6.17	4.01
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.57 kW	2.24 kW
COP Tj = 12°C	9.07	5.38
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.14 kW	5.38 kW
COP Tj = Tbiv	6.17	4.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.45 kW	7.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.92	2.53
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	0.55 kW	0.79 kW
Annual energy consumption Qhe	1563 kWh	2594 kWh