

Subtype M thermal P series Split 8 10 kW

Certificate Holder	GD Midea Heating & Ventilating Equipment Co., Ltd.
Address	Penglai Industry Road
ZIP	528311
City	Beijiao, Shunde, Foshan
Country	CN
Certification Body	BRE Global Limited
Subtype title	M thermal P series Split 8 10 kW
Registration number	041-K007-37
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.35 kg
Certification Date	05.11.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 14

**Model MHA-V8WD2N8\*-C-B+HB-A100C\*\*\*\*GN8\*-C**

Model name	MHA-V8WD2N8*-C-B+HB-A100C****GN8*-C
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
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	7.80 kW	7.80 kW
El input	1.63 kW	2.56 kW
COP	4.80	3.05

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	193 %	138 %
P <sub>rated</sub>	7.90 kW	7.90 kW
SCOP	4.90	3.53
T <sub>biv</sub>	-7 °C	-7 °C
T <sub>OL</sub>	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7 °C	7.02 kW	7.01 kW
COP T <sub>j</sub> = -7 °C	3.15	2.21
C <sub>dh</sub> T <sub>j</sub> = -7 °C	0.900	0.900
P <sub>dh</sub> T <sub>j</sub> = +2 °C	4.40 kW	4.36 kW
COP T <sub>j</sub> = +2 °C	4.77	3.55
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.88 kW	2.82 kW
COP Tj = +7°C	6.42	4.51
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.42 kW	3.05 kW
COP Tj = 12°C	8.49	6.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.02 kW	7.01 kW
COP Tj = Tbiv	3.15	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	5.85 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	6 W	6 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	2.07 kW
Annual energy consumption Qhe	3342 kWh	4617 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	161 %	111 %
Prated	7.3 kW	6.2 kW
SCOP	4.10	2.85
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	4.62 kW	3.85 kW
COP Tj = -7°C	3.60	2.46
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.69 kW	2.39 kW
COP Tj = +2°C	4.78	3.27
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.66 kW	2.43 kW
COP Tj = +7°C	6.53	4.78
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.35 kW	2.94 kW
COP Tj = 12°C	8.81	6.27

Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.94 kW	5.10 kW
COP Tj = Tbiv	2.69	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.66 kW	2.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.94	1.17
WTOL	65.00 °C	65.00 °C
Poff	10.00 W	10.00 W
PTO	6 W	6 W
PSB	10.00 W	10.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.62 kW	3.40 kW
Annual energy consumption Qhe	4371.00 kWh	5389.00 kWh
Pdh Tj = -15°C (if TOL	5.94	5.10
COP Tj = -15°C (if TOL	2.69	1.93
Cdh Tj = -15 °C	1	1

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
ηs	262.00 %	172.00 %
Prated	8.2 kW	8.2 kW
SCOP	6.63	4.38
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	7.78 kW	7.33 kW
COP Tj = +2°C	3.72	2.56
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.29 kW	5.28 kW
COP Tj = +7°C	6.03	3.89
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.36 kW	3.01 kW
COP Tj = 12°C	8.80	5.83
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.10 kW	5.10 kW
COP Tj = Tbiv	1.93	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.78 kW	7.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.72	2.56

WTOL	65.00 °C	65.00 °C
Poff	10.00 W	10.00 W
PTO	6.00 W	6.00 W
PSB	10 W	10 W
PCK	0.00 W	0.00 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.89 kW
Annual energy consumption Qhe	1651.00 kWh	2505.00 kWh

**Model MHA-V10WD2N8\*-C-B+HB-A100C\*\*\*\*GN8\*-C**

Model name	MHA-V10WD2N8*-C-B+HB-A100C****GN8*-C
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
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	9.10 kW	9.10 kW
El input	2.00 kW	3.08 kW
COP	4.55	2.95

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	191 %	139 %
Prated	9.2 kW	8.8 kW
SCOP	4.85	3.55
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	8.10 kW	7.75 kW
COP Tj = -7°C	2.96	2.19
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.13 kW	4.77 kW
COP Tj = +2°C	4.66	3.55
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	3.22 kW	3.06 kW
COP Tj = +7°C	6.62	4.64
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.39 kW	3.06 kW
COP Tj = 12°C	9.24	6.31
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.10 kW	7.75 kW
COP Tj = Tbiv	2.96	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.07 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.77
WTOL	65.00 °C	65.00 °C
Poff	10.00 W	10.00 W
PTO	6.00 W	6.00 W
PSB	10.00 W	10.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.08 kW	2.49 kW
Annual energy consumption Qhe	3901 kWh	5072 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	162 %	114 %
Prated	8.1 kW	7.2 kW
SCOP	4.13	2.93
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	4.98 kW	4.52 kW
COP Tj = -7°C	3.71	2.55
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.02 kW	2.70 kW
COP Tj = +2°C	4.70	3.32
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.67 kW	2.44 kW
COP Tj = +7°C	6.63	4.85
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.37 kW	2.92 kW
COP Tj = 12°C	8.92	6.29
Cdh Tj = +12 °C	0.90	0.90

Pdh Tj = Tbiv	6.64 kW	5.91 kW
COP Tj = Tbiv	2.58	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.36 kW	2.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.95	1.17
WTOL	65.00 °C	65.00 °C
Poff	10.00 W	10.00 W
PTO	6 W	6 W
PSB	10.00 W	10.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.78 kW	4.40 kW
Annual energy consumption Qhe	4839.00 kWh	6097.00 kWh
Pdh Tj = -15°C (if TOL	6.64	5.91
COP Tj = -15°C (if TOL	2.58	1.99
Cdh Tj = -15 °C	1	1

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	43.00 dB(A)	43.00 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
ηs	266.00 %	175.00 %
Prated	9.2 kW	9.3 kW
SCOP	6.73	4.45
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	8.71 kW	8.15 kW
COP Tj = +2°C	3.59	2.52
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.94 kW	5.97 kW
COP Tj = +7°C	5.93	3.91
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.43 kW	3.04 kW
COP Tj = 12°C	9.22	6.05
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.91 kW	5.91 kW
COP Tj = Tbiv	1.99	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.71 kW	8.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	2.52
WTOL	65.00 °C	65.00 °C

Poff	10.00 W	10.00 W
PTO	6.00 W	6.00 W
PSB	10 W	10 W
PCK	0.00 W	0.00 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.52 kW	1.13 kW
Annual energy consumption Qhe	1832.00 kWh	2779.00 kWh