

Subtype M thermal P series Split 3 4 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 3 4 kW
Registration number	041-K007-35
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.95 kg
Certification Date	05.11.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 14

Model MHA-V3WD2N8*-C-B+HB-A60C**GN8*-C**

Model name	MHA-V3WD2N8*-C-B+HB-A60C****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	3.30 kW	3.40 kW
El input	0.66 kW	1.19 kW
COP	5.00	2.85

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	125 %
Prated	3.4 kW	4.0 kW
SCOP	4.58	3.20
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	2.98 kW	3.60 kW
COP Tj = -7°C	3.10	2.14
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	1.86 kW	2.30 kW
COP Tj = +2°C	4.51	3.11
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	1.72 kW	1.52 kW
COP Tj = +7°C	5.95	4.15
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.10 kW	1.93 kW
COP Tj = 12°C	8.22	6.14
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	2.98 kW	3.60 kW
COP Tj = Tbiv	3.10	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.57 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.69
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	0.00 kW	1.02 kW
Annual energy consumption Qhe	1523 kWh	2569 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	148 %	95 %
Prated	3.30 kW	3.10 kW
SCOP	3.78	2.45
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-18 °C
Pdh Tj = -7°C	2.09 kW	1.98 kW
COP Tj = -7°C	3.31	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.33 kW	1.24 kW
COP Tj = +2°C	4.27	2.71
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.64 kW	1.49 kW
COP Tj = +7°C	6.01	4.43
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.95 kW	1.91 kW
COP Tj = 12°C	7.75	6.30
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	2.71 kW	2.52 kW
COP Tj = Tbiv	2.50	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.90 kW	2.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.25
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	0.43 kW	3.10 kW
Annual energy consumption Qhe	2155 kWh	3090 kWh
Pdh Tj = -15°C (if TOL	2.71	2.52
COP Tj = -15°C (if TOL	2.50	1.64
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	225.00 %	146.00 %
Prated	3.4 kW	3.4 kW
SCOP	5.70	3.73
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	3.27 kW	3.24 kW
COP Tj = +2°C	4.02	2.33
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.22 kW	2.17 kW
COP Tj = +7°C	5.54	3.22
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.91 kW	1.86 kW
COP Tj = 12°C	7.43	5.26
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	2.52 kW	2.52 kW
COP Tj = Tbiv	1.64	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.27 kW	3.24 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.02	2.33
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	0.13 kW	0.15 kW
Annual energy consumption Qhe	805.00 kWh	1211.00 kWh

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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	4.50 kW	4.50 kW
El input	0.94 kW	1.58 kW
COP	4.80	2.85

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	127 %
Prated	4.5 kW	4.6 kW
SCOP	4.65	3.25
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	4.01 kW	4.09 kW
COP Tj = -7°C	3.07	2.07
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.53 kW	2.58 kW
COP Tj = +2°C	4.53	3.14
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	1.72 kW	1.70 kW
COP Tj = +7°C	5.95	4.31
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.11 kW	1.96 kW
COP Tj = 12°C	8.36	6.39
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.01 kW	4.09 kW
COP Tj = Tbiv	3.07	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.51 kW	3.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.70
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	0.00 kW	0.68 kW
Annual energy consumption Qhe	2006 kWh	2911 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	154 %	102 %
Prated	4.50 kW	4.00 kW
SCOP	3.93	2.63
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-18 °C
Pdh Tj = -7°C	2.79 kW	2.47 kW
COP Tj = -7°C	3.42	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.83 kW	1.76 kW
COP Tj = +2°C	4.69	3.07
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.66 kW	1.50 kW
COP Tj = +7°C	6.20	4.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.95 kW	1.91 kW
COP Tj = 12°C	7.75	6.24
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	3.67 kW	3.27 kW
COP Tj = Tbiv	2.51	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.15 kW	2.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.93	1.25
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	1.35 kW	4.00 kW
Annual energy consumption Qhe	2810 kWh	3745 kWh
Pdh Tj = -15°C (if TOL	3.67	3.27
COP Tj = -15°C (if TOL	2.51	1.75
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38.00 dB(A)	38.00 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	238 %	157 %
Prated	4.60 kW	4.60 kW
SCOP	6.03	4.00
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.42 kW	4.24 kW
COP Tj = +2°C	3.83	2.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.94 kW	3.01 kW
COP Tj = +7°C	5.63	3.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	1.92 kW
COP Tj = 12°C	7.70	5.54
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.27 kW	3.27 kW
COP Tj = Tbiv	1.75	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.42 kW	4.24 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.83	2.35
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	0.17 kW	0.36 kW
Annual energy consumption Qhe	1012 kWh	1529 kWh