

Subtype Atom T 10kW

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	Atom T 10kW
Registration number	041-K007-42
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	22.09.2025
Testing basis	Heat Pump Keymark Scheme Rules Rev 15
Testing laboratory	Hefei General Machinery & Electrical Products Inspection Institute (GMPI)

Model MDV-V100WHN8(At) + SMK-D160N8(At)

Model name	MDV-V100WHN8(At) + SMK-D160N8(At)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	9.00 kW	8.50 kW
El input	2.14 kW	3.54 kW
COP	4.20	2.40

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	68 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	151 %	112 %
P _{rated}	9.2 kW	7.6 kW
SCOP	3.85	2.88
T _{biv}	-7 °C	-7 °C
T _{OL}	-10.00 °C	-10.00 °C
P _{dh} T _j = -7°C	8.20 kW	6.72 kW
COP T _j = -7°C	2.47	1.80
C _{dh} T _j = -7 °C	0.90	0.90
P _{dh} T _j = +2°C	4.95 kW	4.34 kW
COP T _j = +2°C	3.61	2.92
C _{dh} T _j = +2 °C	0.90	0.90

Pdh Tj = +7°C	3.23 kW	2.78 kW
COP Tj = +7°C	5.70	4.09
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.51 kW	2.40 kW
COP Tj = 12°C	8.98	5.84
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.20 kW	6.72 kW
COP Tj = Tbiv	2.47	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.68 kW	7.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.61
WTOL	60.00 °C	60.00 °C
Poff	0.00 W	0.00 W
PTO	0.00 W	0.00 W
PSB	0.00 W	0.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.48 kW	0.24 kW
Annual energy consumption Qhe	4926 kWh	5490 kWh