Subtype Atom T 12kW with 240L tank	
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 12kW with 240L tank
Registration number	041-K007-46
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 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-V120WHN8(At) + SMKT-D160/240CGN8(At)

Model name	MDV-V120WHN8(At) + SMKT-D160/240CGN8(At)
Application	Heating + DHW
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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.75
Heating up time	2:08 h:min
Standby power input	31.0 W
Reference hot water temperature	48.5 °C
Mixed water at 40°C	272 l

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	12.3 kW	11.5 kW
El input	3.15 kW	4.69 kW
COP	3.9	2.45

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	151 %	112 %

Prated	11 kW	11 kW
SCOP	3.85	2.88
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.32 kW	9.22 kW
COP Tj = -7°C	2.76	1.79
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6.38 kW	6.22 kW
COP Tj = +2°C	3.53	2.91
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.83 kW	4.14 kW
COP Tj = +7°C	6.06	4.45
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.93 kW	2.56 kW
COP Tj = 12°C	9.08	6.23
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.32 kW	9.22 kW
COP Tj = Tbiv	2.76	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.82 kW	8.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.72
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.18 kW	2.85 kW
Annual energy consumption Qhe	5829 kWh	7396 kWh