

Subtype Atom T 14 16kW 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 14 16kW with 240L tank
Registration number	041-K007-48
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.4 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-V140WHN8(At) + SMKT-D160/240CGN8(At)

Model name	MDV-V140WHN8(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 η_{DHW}	110 %
COP	2.50
Heating up time	2:01 h:min
Standby power input	34.0 W
Reference hot water temperature	47.9 °C
Mixed water at 40°C	268 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	14 kW	13 kW
El input	3.41 kW	6.05 kW
COP	4.1	2.15

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	151 %	110 %

Prated	13.7 kW	11.4 kW
SCOP	3.85	2.83
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.86 kW	10.92 kW
COP Tj = -7°C	2.55	1.84
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	7.1 kW	6.2 kW
COP Tj = +2°C	3.83	2.89
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	4.83 kW	4.08 kW
COP Tj = +7°C	6.09	4.14
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	3.94 kW	3.22 kW
COP Tj = 12°C	9	5.83
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.86 kW	10.92 kW
COP Tj = Tbiv	2.55	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.87 kW	10.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.27	1.61
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	1.83 kW	1.23 kW
Annual energy consumption Qhe	7262 kWh	8034 kWh

Model MDV-V160WHN8(At) + SMKT-D160/240CGN8(At)

Model name	MDV-V160WHN8(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 η_{DHW}	110 %
COP	2.50
Heating up time	2:01 h:min
Standby power input	34.0 W
Reference hot water temperature	47.9 °C
Mixed water at 40°C	268 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	15.5 kW	13.5 kW
El input	3.88 kW	6.28 kW
COP	4	2.15

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	151 %	110 %

Prated	14.8 kW	11.6 kW
SCOP	3.85	2.83
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.75 kW	10.88 kW
COP Tj = -7°C	2.34	1.76
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	8.61 kW	6.4 kW
COP Tj = +2°C	3.61	2.85
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	5.51 kW	4.37 kW
COP Tj = +7°C	6.2	4.14
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.37 kW	3.04 kW
COP Tj = 12°C	9.05	5.47
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	12.75 kW	10.88 kW
COP Tj = Tbiv	2.34	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.87 kW	10.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.27	1.67
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	2.93 kW	0.95 kW
Annual energy consumption Qhe	7781 kWh	8258 kWh