

Subtype Atom T 14 16kW

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
Registration number	041-K007-47
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) + SMK-D160N8(At)**

Model name	MDV-V140WHN8(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	14.00 kW	13.00 kW
El input	3.41 kW	6.05 kW
COP	4.10	2.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.00 dB(A)	44.00 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	151 %	110 %
Prated	13.7 kW	11.4 kW
SCOP	3.85	2.83
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	11.86 kW	10.92 kW
COP Tj = -7°C	2.55	1.84
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.10 kW	6.20 kW
COP Tj = +2°C	3.83	2.89
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	4.83 kW	4.08 kW
COP Tj = +7°C	6.09	4.14
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.94 kW	3.22 kW
COP Tj = 12°C	9.00	5.83
Cdh Tj = +12 °C	0.90	0.90
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	60.00 °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	1.83 kW	1.23 kW
Annual energy consumption Qhe	7262 kWh	8034 kWh

**Model MDV-V160WHN8(At) + SMK-D160N8(At)**

Model name	MDV-V160WHN8(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	15.50 kW	13.50 kW
El input	3.88 kW	6.28 kW
COP	4.00	2.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.00 dB(A)	44.00 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	151 %	110 %
Prated	14.8 kW	11.6 kW
SCOP	3.85	2.83
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	12.75 kW	10.88 kW
COP Tj = -7°C	2.34	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.61 kW	6.40 kW
COP Tj = +2°C	3.61	2.85
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	5.51 kW	4.37 kW
COP Tj = +7°C	6.20	4.14
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.37 kW	3.04 kW
COP Tj = 12°C	9.05	5.47
Cdh Tj = +12 °C	0.90	0.90
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	60.00 °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	2.93 kW	0.95 kW
Annual energy consumption Qhe	7781 kWh	8258 kWh