

Subtype DC Inverter Air to Water Heat Pump Unit- R32- 09- C

Certificate Holder	Zhongshan Amitime Electric Co., Ltd
Address	5th Yandong Rd
ZIP	
City	Zhongshan City - Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit- R32- 09- C
Registration number	041-K027-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	22.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor unit: AVH-09V1FX-250L/IX, Outdoor unit: AVH-09V1FXX

Model name	Indoor unit: AVH-09V1FX-250L/IX, Outdoor unit: AVH-09V1FXX
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 16147 | Operating test

Temperature operating range	2
Safety devices checking test	2
Condensate draining	2

EN 12102-2 | Average Climate

Sound power level indoor	46 dB(A)
Sound power level outdoor	54 dB(A)

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	124 %
COP	2.94
Heating up time	24:51:34 h:min
Standby power input	36.0 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	214 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	5.72 kW	8.04 kW
El input	1.09 kW	3.16 kW

COP	5.26	2.54
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	46 dB(A)
Sound power level outdoor	53 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	181 %	130 %
Prated	6.39 kW	5.97 kW
SCOP	4.61	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.65 kW	5.28 kW
COP Tj = -7°C	3.19	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.36 kW	3.15 kW
COP Tj = +7°C	6.36	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.96 kW	3.73 kW
COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor unit: PAVH-09V1FX-250L/IX, Outdoor unit: PAVH-09V1FXX

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Any additional heat sources	n/a

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