

Subtype DC Inverter Air to Water Heat Pump Unit- R32- 12- 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- 12- C
Registration number	041-K027-19
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	22.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor unit: AVH-12V1FX-250L/X, Outdoor unit: AVH-12V1FXX

Model name	Indoor unit: AVH-12V1FX-250L/X, Outdoor unit: AVH-12V1FXX
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}	121 %
COP	2.87
Heating up time	22:44:31 h:min
Standby power input	39.0 W
Reference hot water temperature	45.3 °C
Mixed water at 40°C	223 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	6.67 kW	10.51 kW
El input	1.35 kW	3.83 kW

COP	4.93	2.75
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	46 dB(A)
Sound power level outdoor	52 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	181 %	132 %
Prated	8.79 kW	7.07 kW
SCOP	4.60	3.36
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.78 kW	6.26 kW
COP Tj = -7°C	3.25	1.79
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.91 kW	3.84 kW
COP Tj = +2°C	4.46	3.46
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.06 kW
COP Tj = +7°C	6.16	4.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.87 kW
COP Tj = 12°C	8.24	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	6.26 kW
COP Tj = Tbiv	3.25	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.36 kW	5.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor unit: PAVH-12V1FX-250L/X, Outdoor unit: PAVH-12V1FXX

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