

Subtype DC Inverter Air to Water Heat Pump Unit- R32- 15- 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- 15- C
Registration number	041-K027-20
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 kg
Certification Date	22.09.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Indoor unit: AVH-15V4FX-250L/IX, Outdoor unit: AVH-15V4FXX

Model name	Indoor unit: AVH-15V4FX-250L/IX, Outdoor unit: AVH-15V4FXX
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	3x400V 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	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.00
Heating up time	23:8:13 h:min
Standby power input	46.0 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	219 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	9.58 kW	11.14 kW
El input	1.85 kW	4.14 kW

COP	5.19	2.69
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EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	127 %
P _{rated}	11.60 kW	11.04 kW
SCOP	4.70	3.24
T _{biv}	-7 °C	-7 °C
TOL	-25 °C	-25 °C
P _{dh} T _j = -7°C	10.26 kW	9.76 kW
COP T _j = -7°C	3.38	1.89
C _{dh} T _j = -7 °C	0.900	0.900
P _{dh} T _j = +2°C	6.30 kW	6.11 kW
COP T _j = +2°C	4.69	3.22
C _{dh} T _j = +2 °C	0.900	0.900
P _{dh} T _j = +7°C	6.13 kW	5.93 kW
COP T _j = +7°C	6.29	4.76
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	5.97 kW	6.92 kW
COP T _j = 12°C	6.02	5.80
C _{dh} T _j = +12 °C	0.900	0.900
P _{dh} T _j = T _{biv}	10.26 kW	9.76 kW
COP T _j = T _{biv}	3.38	1.89
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.23 kW	9.13 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.02	1.70
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.900	0.900
WTOL	56 °C	56 °C
P _{off}	13 W	13 W
PTO	39 W	39 W
PSB	13 W	13 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	1.91 kW
Annual energy consumption Q _{he}	5096 kWh	7039 kWh

Model Indoor unit: PAVH-15V4FX-250L/IX, Outdoor unit: PAVH-15V4FXX

Model name	Indoor unit: PAVH-15V4FX-250L/IX, Outdoor unit: PAVH-15V4FXX
Application	Heating + DHW + low 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	3x400V 50Hz
Off-peak product	n/a

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