

Subtype DC Inverter Air to Water Heat Pump Unit- R290- 08- 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- R290- 08- C
Registration number	041-K027-14
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	22.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor unit: PAVH-06-20V1GX-250L/IX, Outdoor unit: PAVH-08V1GXX

Model name	Indoor unit: PAVH-06-20V1GX-250L/IX, Outdoor unit: PAVH-08V1GXX
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	33 dB(A)
Sound power level outdoor	56 dB(A)

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.12
Heating up time	43:17:50 h:min
Standby power input	26.0 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	222 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	5.77 kW	5.57 kW
El input	1.14 kW	1.65 kW

COP	5.07	3.37
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EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	54 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	143 %
Prated	6.93 kW	6.40 kW
SCOP	4.85	3.65
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.13 kW	5.67 kW
COP Tj = -7°C	3.09	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.83 kW	3.59 kW
COP Tj = +2°C	4.67	3.64
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.29 kW	3.02 kW
COP Tj = +7°C	6.81	4.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.89 kW	3.62 kW
COP Tj = 12°C	9.50	6.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.13 kW	5.67 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.64 kW	5.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	20 W	20 W
PTO	23 W	23 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.29 kW	1.32 kW
Annual energy consumption Qhe	2953 kWh	3622 kWh

Model Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR08

Model name	Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR08
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	1x230V 50Hz
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