

Subtype Intelligent Inverter Heat Pump 60-R290

Certificate Holder	Guangdong PHNIX Eco-Energy Solutions Ltd.
Address	No. 3 Tianyuan Road Dagang Town
ZIP	511470
City	Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Intelligent Inverter Heat Pump 60-R290
Registration number	041-K020-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.3 kg
Certification Date	22.06.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model PASRW060-BP-PS-D

Model name	PASRW060-BP-PS-D
Application	Heating (medium temp)
Units	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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	145 %
Prated	12.57 kW	11.81 kW
SCOP	4.65	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.12 kW	10.45 kW
COP Tj = -7°C	3.31	2.31
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.82 kW	6.39 kW
COP Tj = +2°C	4.51	3.64
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.60 kW	7.44 kW
COP Tj = +7°C	5.60	4.68
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.71 kW	7.56 kW
COP Tj = 12°C	6.89	6.18
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.12 kW	10.45 kW
COP Tj = Tbiv	3.31	2.31

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.54 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	75 °C	75 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	58 W	58 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.03 kW	0.00 kW
Annual energy consumption Qhe	5587 kWh	6587 kWh

Model PASRW060S-BP-PS-D

Model name	PASRW060S-BP-PS-D
Application	Heating (medium temp)
Units	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

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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	145 %
Prated	12.55 kW	12.34 kW
SCOP	4.91	3.70
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.11 kW	10.92 kW
COP Tj = -7°C	3.23	2.34
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.89 kW	6.80 kW
COP Tj = +2°C	4.83	3.58
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.30 kW	7.36 kW
COP Tj = +7°C	6.04	4.74
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.78 kW	7.39 kW
COP Tj = 12°C	7.46	6.12
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.11 kW	10.92 kW
COP Tj = Tbiv	3.23	2.34

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.61 kW	12.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.89	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	63 °C	63 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.01 kW
Annual energy consumption Qhe	5281 kWh	6895 kWh