

Subtype Intelligent Inverter Heat Pump 40-R32

Certificate Holder	Guangdong PHNIX Eco-Energy Solution 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 40-R32
Registration number	041-K020-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	01.11.2021
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model PASRW040S-BP-PS-B**

Model name	PASRW040S-BP-PS-B
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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.81 kW	8.97 kW
El input	1.96 kW	2.98 kW
COP	5.00	3.01

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	62 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	181 %	130 %
Prated	8.73 kW	9.51 kW
SCOP	4.61	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.72 kW	8.41 kW
COP Tj = -7°C	3.39	2.32
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.76 kW	5.13 kW
COP Tj = +2°C	4.38	3.20
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.20 kW	4.16 kW

COP Tj = +7°C	5.71	4.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.06 kW	4.26 kW
COP Tj = 12°C	7.11	5.53
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	7.72 kW	8.41 kW
COP Tj = Tbiv	3.39	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.90 kW	7.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	59 W	59 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	1.79 kW
Annual energy consumption Qhe	3912 kWh	5918 kWh

**Model PASRW040-BP-PS-B**

Model name	PASRW040-BP-PS-B
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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.76 kW	9.49 kW
El input	2.12 kW	3.90 kW
COP	4.61	2.43

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	183 %	131 %
Prated	8.73 kW	9.51 kW
SCOP	4.65	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.73 kW	8.41 kW
COP Tj = -7°C	3.39	2.30
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.73 kW	5.12 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.18 kW	4.11 kW

COP Tj = +7°C	5.72	3.99
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.62 kW	4.40 kW
COP Tj = 12°C	7.54	5.69
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	7.73 kW	8.41 kW
COP Tj = Tbiv	3.39	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.79 kW	9.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.31 kW
Annual energy consumption Qhe	3877 kWh	5879 kWh