

Subtype Intelligent Inverter Heat Pump R32- P17A, P17T

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 R32- P17A, P17T
Registration number	041-K020-09
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2 kg
Certification Date	05.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model P17A

Model name	P17A
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	69 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	157 %	126 %
Prated	12.61 kW	12.67 kW
SCOP	4.00	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.15 kW	11.21 kW
COP Tj = -7°C	3.01	2.27
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.82 kW	6.91 kW
COP Tj = +2°C	3.67	2.81
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	7.09 kW
COP Tj = +7°C	4.99	4.63
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.35 kW	7.16 kW
COP Tj = 12°C	6.50	5.76
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.15 kW	11.21 kW
COP Tj = Tbiv	3.01	2.27

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.66 kW	12.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	49 °C	49 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	59 W	59 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.35 kW
Annual energy consumption Qhe	6512 kWh	8144 kWh

Model P17T

Model name	P17T
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	67 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	158 %	125 %
Prated	12.89 kW	12.93 kW
SCOP	4.01	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.41 kW	11.43 kW
COP Tj = -7°C	2.96	2.26
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.94 kW	7.05 kW
COP Tj = +2°C	3.73	2.92
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.54 kW	7.13 kW
COP Tj = +7°C	5.03	4.16
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	8.26 kW	8.38 kW
COP Tj = 12°C	6.38	5.77
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.41 kW	11.43 kW
COP Tj = Tbiv	2.96	2.26

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.85 kW	12.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.04 kW	0.00 kW
Annual energy consumption Qhe	6634 kWh	8341 kWh