Subtype Intelligent Inverter Heat Pump R32- P17A, P17T

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 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
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	16.72 kW	20.31 kW
El input	3.68 kW	7.18 kW
COP	4.54	2.83

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
ηs	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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	16.91 kW	20.61 kW
El input	3.92 kW	7.91 kW
COP	4.32	2.61

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
ηs	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