

Subtype DC Inverter Air to Water Heat Pump Unit		
Certificate Holder	CN PAT Co., Ltd.	
Address	Unit 410, Block 25,Shunlian International Machinery City, Chencun Town, Shunde District, Foshan City	
ZIP		
City	Guangdong Province	
Country	CN	
Certification Body	BRE Global Limited	
Subtype title	DC Inverter Air to Water Heat Pump Unit	
Registration number	041-K065-01	
Heat Pump Type	Outdoor Air/Water	
Refrigerant	R32	
Mass of Refrigerant	1.4 kg	
Certification Date	22.08.2023	
Testing basis	Heat Pump Keymark Scheme Rules Rev 12	



Model PT-10WEN8

Model name	PT-10WEN8	
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	
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EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	64 dB(A)
EN 14825 Average Climate		
EN 14825 Average Climate	Low temperature	Medium temperature
	Low temperature 185 %	Medium temperature 129 %
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ηs Prated	185 %	129 %
ηs Prated SCOP	185 % 9.05 kW	129 % 7.50 kW
ηs Prated SCOP Tbiv	185 % 9.05 kW 4.70	129 % 7.50 kW 3.30
ηs Prated SCOP Tbiv TOL	185 % 9.05 kW 4.70 -7 °C	129 % 7.50 kW 3.30 -7 °C
ns Prated SCOP Tbiv TOL Pdh Tj = -7°C	185 % 9.05 kW 4.70 -7 °C -10 °C	129 % 7.50 kW 3.30 -7 °C -10 °C
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7 °C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900 3.24 kW	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900 3.14 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900 3.24 kW 5.94	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900 3.14 kW 4.37
Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C Pdh Tj = 12° C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900 3.24 kW 5.94 0.900	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900 3.14 kW 4.37 0.900 3.90 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = 12°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900 3.24 kW 5.94 0.900 3.82 kW	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900 3.14 kW 4.37 0.900 3.90 kW 6.75
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Cdh Tj = +7°C Cdh Tj = +7°C COP Tj = +7°C Pdh Tj = +7°C Cdh Tj = +7°C	185 % 9.05 kW 4.70 -7 °C -10 °C 8.01 kW 3.16 0.900 5.16 kW 4.54 0.900 3.24 kW 5.94 0.900 3.22 kW	129 % 7.50 kW 3.30 -7 °C -10 °C 6.63 kW 2.10 0.900 4.26 kW 3.21 0.900 3.14 kW 4.37 0.900 3.90 kW



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.71 kW	6.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	7 W	7 W
РТО	38 W	38 W
PSB	7 W	7 W
РСК	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.34 kW	1.01 kW
Annual energy consumption Qhe	3975 kWh	4694 kWh