Subtype DC Inverter Air to Water Heat Pump Unit-R32-12T

Certificate Holder	POLYTROPIC SAS
Address	4 chemin des Eclapons
ZIP	69390
City	Vouries
Country	FR
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit-R32-12T
Registration number	041-K093-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.55 kg
Certification Date	31.07.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Outdoor unit: WHL-12T, Indoor unit: RLB-100	
Model name	Outdoor unit: WHL-12T, Indoor unit: RLB-100
Application	Heating (medium temp)
Units	Indoor, 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	9.58 kW	11.14 kW
El input	1.85 kW	4.14 kW
COP	5.19	2.69

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	185 %	127 %
Prated	11.60 kW	11.04 kW
SCOP	4.70	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.26 kW	9.76 kW
COP Tj = -7°C	3.38	1.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.30 kW	6.11 kW
COP Tj = +2°C	4.69	3.22
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	6.13 kW	5.93 kW
COP Tj = +7°C	6.29	4.76
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.97 kW	6.92 kW
COP Tj = 12°C	6.02	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.26 kW	9.76 kW
COP Tj = Tbiv	3.38	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.23 kW	9.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	13 W	13 W
PTO	39 W	39 W
PSB	13 W	13 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	1.91 kW
Annual energy consumption Qhe	5096 kWh	7039 kWh