Subtype EVI DC Inverter Heat Pump- R32- 9

Certificate Holder	Fotowoltaika By Energy Solutions sp. z o. o.
Address	Rynek Glowny 28
ZIP	31-010
City	Krakow
Country	PL
Certification Body	BRE Global Limited
Subtype title	EVI DC Inverter Heat Pump- R32- 9
Registration number	041-K097-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	15.08.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model BES 9 KW	
Model name	BES 9 KW
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	7.84 kW	8.22 kW
El input	1.69 kW	3.05 kW
COP	4.65	2.69

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	127 %
Prated	7.00 kW	7.19 kW
SCOP	4.46	3.25
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.19 kW	6.36 kW
COP Tj = -7°C	2.98	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	4.01 kW
COP Tj = +2°C	4.50	3.28
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.17 kW

COP Tj = +7°C	5.81	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.65 kW	4.95 kW
COP Tj = 12°C	7.79	5.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.19 kW	6.36 kW
COP Tj = Tbiv	2.98	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	5.57 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	6 W	6 W
PTO	7 W	7 W
PSB	6 W	6 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.25 kW	1.62 kW
Annual energy consumption Qhe	3244 kWh	4566 kWh