

Mass of Refrigerant

Certification Date

Testing basis

Subtype DC Inverter Air To Water Heat Pump 12 **Certificate Holder** Foshan Ecoview Energy Saving Facility Ltd Address 5/F of Central Building ZIP Daliang Shunde Dist., Foshan City City Country CN **Certification Body BRE Global Limited** Subtype title DC Inverter Air To Water Heat Pump 12 **Registration number** 041-K040-03 Heat Pump Type Outdoor Air/Water Refrigerant R32

2.1 kg

29.11.2022

Heat Pump Keymark Scheme Rules Rev 11



Model EV-DCM12

Model name	EV-DCM12	
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	bassed	
-	•	
Complete power supply failure Defrost test	passed	
	passed	
Starting and operating test	passed	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	69 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	Low temperature 183 %	Medium temperature 134 %
		•
Prated	183 %	134 %
Prated SCOP	183 % 9.33 kW	134 % 8.88 kW
Prated SCOP Tbiv	183 % 9.33 kW 4.66	134 % 8.88 kW 3.42
Prated SCOP Tbiv TOL	183 % 9.33 kW 4.66 -7 °C	134 % 8.88 kW 3.42 -7 °C
Prated SCOP Tbiv TOL Pdh Tj = -7°C	183 % 9.33 kW 4.66 -7 °C -10 °C	134 % 8.88 kW 3.42 -7 °C -10 °C
Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW 6.25	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW 4.75
Prated SCOP Tbiv TOL 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 Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW 6.25 0.990	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW 4.75 0.990
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh 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 COP Tj = +7°C COP Tj = 12°C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW 6.25 0.990 6.61 kW	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW 4.75 0.990 6.34 kW
Prated SCOP Tbiv TOL Pdh Tj = -7° C COP Tj = -7° C Cdh Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C Pdh Tj = 12° C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW 6.25 0.990 6.61 kW 8.69	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW 4.75 0.990 6.34 kW 7.12
Prated SCOP Tbiv TOL 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 Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C	183 % 9.33 kW 4.66 -7 °C -10 °C 8.25 kW 2.64 0.900 5.43 kW 4.59 0.900 5.68 kW 6.25 0.990 6.61 kW	134 % 8.88 kW 3.42 -7 °C -10 °C 7.85 kW 2.02 0.900 4.82 kW 3.24 0.900 5.30 kW 4.75 0.990 6.34 kW



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.49 kW	7.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	61 °C	61 °C
Poff	7 W	7 W
РТО	7 W	7 W
PSB	7 W	7 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	1.80 kW
Annual energy consumption Qhe	4133 kWh	5362 kWh