

Subtype DC Inverter Air to Water Heat Pump Unit-08

Certificate Holder	Ecochi GmbH
Address	Böhmerwaldstrasse 13
ZIP	85570
City	Markt Schwaben
Country	DE
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit-08
Registration number	041-K067-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	25.08.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

Model Indoor unit: CBHA-IG1V04- 8, Outdoor unit: CBHA-OG1V03-8

Model name	Indoor unit: CBHA-IG1V04- 8, Outdoor unit: CBHA-OG1V03-8
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	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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	54 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	143 %
Prated	6.93 kW	6.40 kW
SCOP	4.85	3.65
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.13 kW	5.67 kW
COP Tj = -7°C	3.09	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.83 kW	3.59 kW
COP Tj = +2°C	4.67	3.64
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.29 kW	3.02 kW
COP Tj = +7°C	6.81	4.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.89 kW	3.62 kW
COP Tj = 12°C	9.50	6.28
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	6.13 kW	5.67 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.64 kW	5.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	20 W	20 W
PTO	23 W	23 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.29 kW	1.32 kW
Annual energy consumption Qhe	2953 kWh	3622 kWh