

Subtype ECO-ZR04FC

Certificate Holder	Ecogenica Ltd
Address	Level 1 Brockbourne House 77 Mount Ephraim; Tunbridge Wells
ZIP	TN4 8BS
City	Kent
Country	GB
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ECO-ZR04FC
Registration number	011-1W0865
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	08.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model ECO-ZR04FC

Model name	ECO-ZR04FC
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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	11.50 kW
El input	2.72 kW	3.88 kW
COP	4.39	2.96

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	136 %
Prated	10.20 kW	9.20 kW
SCOP	4.52	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.02 kW	8.14 kW
COP Tj = -7°C	2.90	2.26
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.51 kW	5.11 kW
COP Tj = +2°C	4.31	3.33
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.77 kW	3.56 kW

COP Tj = +7°C	6.50	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	4.22 kW
COP Tj = 12°C	7.43	6.95
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.02 kW	8.14 kW
COP Tj = Tbiv	2.90	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	8.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	56 W	56 W
PSB	13 W	13 W
PCK	93 W	93 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.44 kW	1.02 kW
Annual energy consumption Qhe	4646 kWh	5457 kWh