

Subtype Series C R290 Mono-block Heat Pump 10kW

Certificate Holder	ECO-Warm Sàrl
Address	4, Route Industrielle
ZIP	1806
City	ST-LÉGIER-LA CHIÉSAZ
Country	CH
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Series C R290 Mono-block Heat Pump 10kW
Registration number	011-1W0874
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	16.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model EW10R290

Model name	EW10R290
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	11.00 kW	11.00 kW
El input	2.44 kW	3.66 kW
COP	4.50	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	139 %
Prated	11.00 kW	11.00 kW
SCOP	4.83	3.54
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.99 kW	10.11 kW
COP Tj = -7°C	3.26	2.44
Cdh Tj = -7 °C	0.975	0.981
Pdh Tj = +2°C	6.02 kW	5.98 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	0.939	0.956
Pdh Tj = +7°C	5.61 kW	5.57 kW

COP Tj = +7°C	6.46	4.80
Cdh Tj = +7 °C	0.911	0.934
Pdh Tj = 12°C	7.07 kW	6.23 kW
COP Tj = 12°C	9.02	6.28
Cdh Tj = +12 °C	0.902	0.922
Pdh Tj = Tbiv	9.99 kW	10.11 kW
COP Tj = Tbiv	3.26	2.44
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.43 kW	7.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.974	0.980
WTOL	75 °C	75 °C
Poff	72 W	72 W
PTO	77 W	77 W
PSB	72 W	72 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.60 kW	3.10 kW
Annual energy consumption Qhe	4705 kWh	6414 kWh