

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	ecoGEO B3/C3 1-6 PRO	Reg. No.	011-1W0430
Certificate Holder			
Name	Ecoforest Geotermia S.L.		
Address	Rúa das Pontes, 25	Zip	36350
City	Nigrán (Pontevedra)	Country	Spain
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Austrian Institute of Technology (AIT)		
Subtype title	ecoGEO B3/C3 1-6 PRO		
Heat Pump Type	Brine/Water		
Refrigerant	R290		
Mass Of Refrigerant	0.15 kg		
Certification Date	17.11.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: ecoGEO B3/C3 1-6 PRO

General Data

Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.12 kW	4.39 kW
El input	1.61 kW	1.53 kW
COP	4.30	2.84
Indoor water flow rate	1.06 m ³ /h	0.48 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	136 %
Prated	6.00 kW	5.50 kW
SCOP	4.64	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.35 kW	4.45 kW
COP Tj = -7°C	3.87	2.89
Cdh	0.99	0.99
Pdh Tj = +2°C	3.28 kW	2.73 kW
COP Tj = +2°C	4.68	3.60
Cdh	0.98	0.98
Pdh Tj = +7°C	2.10 kW	2.01 kW
COP Tj = +7°C	5.26	4.14
Cdh	0.97	0.98
Pdh Tj = 12°C	1.24 kW	1.16 kW

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COP Tj = 12°C	5.44	4.48
Cdh	0.95	0.96
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL	5.82 kW	5.50 kW
COP Tj = TOL	3.72	2.79
WTOL	70 °C	70 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.00 kW
Annual energy consumption Qhe	2669 kWh	3152 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature

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η_s	178 %	134 %
Prated	6.00 kW	5.50 kW
SCOP	4.65	3.56
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.82 kW	5.50 kW
COP Tj = +2°C	3.72	2.79
Cdh	0.99	0.99
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh	0.99	0.99
Pdh Tj = 12°C	1.71 kW	3.44 kW
COP Tj = 12°C	5.37	4.24
Cdh	0.96	0.99
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL	5.82 kW	5.50 kW
COP Tj = TOL	3.72	2.79
WTOL	70 °C	70 °C
Poff	11 W	11 W

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PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.00 kW
Annual energy consumption Q _{he}	1728 kWh	2066 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	186 %	141 %
Prated	6.00 kW	5.50 kW
SCOP	4.85	3.73
T _{biv}	-22 °C	-22 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	3.64 kW	3.35 kW
COP T _j = -7°C	4.59	3.42

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Cdh	0.99	0.99
Pdh Tj = +2°C	2.24 kW	2.06 kW
COP Tj = +2°C	5.27	4.04
Cdh	0.97	0.98
Pdh Tj = +7°C	1.44 kW	1.41 kW
COP Tj = +7°C	5.40	4.40
Cdh	0.96	0.96
Pdh Tj = 12°C	0.88 kW	1.19 kW
COP Tj = 12°C	4.91	4.77
Cdh	0.94	0.95
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL	5.82 kW	5.50 kW
COP Tj = TOL	3.72	2.79
WTOL	70 °C	70 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.00 kW

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Annual energy consumption Q _{he}	3059 kWh	3631 kWh
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Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	80 %
COP	1.82
Heating up time	1:50 h:min
Standby power input	100.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	220 l

Warmer Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	80 %
COP	1.82
Heating up time	1:50 h:min
Standby power input	100.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	220 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	80 %
COP	1.82
Heating up time	1:50 h:min
Standby power input	100.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	220 l