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Summary of	ecoGEO B1/C1 1-6 PRO	Reg. No.	011-1W0429
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		
Subtype title	ecoGEO B1/C1 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 B1/C1 1-6 PRO

Configure model	
Model name	ecoGEO B1/C1 1-6 PRO
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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

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

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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.28 kW	2.73 kW
COP Tj = +2°C	4.68	3.60
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.10 kW	2.01 kW
COP Tj = +7°C	5.26	4.14
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	1.24 kW	1.16 kW

COP Tj = 12°C	5.44	4.48
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.82 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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**

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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	1.71 kW	3.44 kW
COP Tj = 12°C	5.37	4.24
Cdh Tj = +12 °C	0.96	0.99
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.82 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	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
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.64 kW	3.35 kW
COP Tj = -7°C	4.59	3.42

Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.24 kW	2.06 kW
COP Tj = +2°C	5.27	4.04
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	1.44 kW	1.41 kW
COP Tj = +7°C	5.40	4.40
Cdh Tj = +7 °C	0.96	0.96
Pdh Tj = 12°C	0.88 kW	1.19 kW
COP Tj = 12°C	4.91	4.77
Cdh Tj = +12 °C	0.94	0.95
Pdh Tj = Tbiv	5.82 kW	5.50 kW
COP Tj = Tbiv	3.72	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.82 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	3059 kWh	3631 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

EN 16147	
Declared load profile	L
Efficiency ηDHW	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 ηDHW	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