

Subtype ecoGEO B3/C3 1-6 PRO

Certificate Holder	Ecoforest Geotermia S.L.
Address	Rúa das Pontes, 25
ZIP	36350
City	Nigrán (Pontevedra)
Country	ES
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ecoGEO B3/C3 1-6 PRO
Registration number	011-1W0430
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 C3 1-6 PRO	
Model name	ecoGEO C3 1-6 PRO
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
General data	
Power supply	1x230V 50Hz
Off-peak product	Yes
Brine/Water	
EN 16147 Average Climate	
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
EN 16147 Colder Climate	
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
EN 16147 Warmer Climate	
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
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	2.58 kW	4.39 kW
El input	0.60 kW	1.53 kW
COP	4.30	2.84
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
EN 14825 Average Climate		
	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	0.990	0.990
Pdh Tj = +2°C	3.28 kW	2.73 kW
COP Tj = +2°C	4.68	3.60
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.10 kW	2.01 kW
COP Tj = +7°C	5.26	4.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	1.24 kW	1.16 kW
COP Tj = 12°C	5.44	4.48
Cdh Tj = +12 °C	0.950	0.960
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2669 kWh	3152 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	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
C _{dh} T _j = -7 °C	0.990	0.990
P _{dh} T _j = +2°C	2.24 kW	2.06 kW
COP T _j = +2°C	5.27	4.04
C _{dh} T _j = +2 °C	0.970	0.980
P _{dh} T _j = +7°C	1.44 kW	1.41 kW
COP T _j = +7°C	5.40	4.40
C _{dh} T _j = +7 °C	0.960	0.960
P _{dh} T _j = 12°C	0.88 kW	1.19 kW
COP T _j = 12°C	4.91	4.77
C _{dh} T _j = +12 °C	0.940	0.950
P _{dh} T _j = T _{biv}	5.82 kW	5.50 kW
COP T _j = T _{biv}	3.72	2.79
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.82 kW	5.50 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.72	2.79
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}		
WTOL	70 °C	70 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3059 kWh	3631 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
EN 14825 Warmer Climate		
	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	0.990	0.990
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	1.71 kW	3.44 kW
COP Tj = 12°C	5.37	4.24
Cdh Tj = +12 °C	0.960	0.990
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.72	2.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1728 kWh	2066 kWh

Model ecoGEO C4 1-6 PRO

Model name	ecoGEO C4 1-6 PRO
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 16147 | Average Climate

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

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	80 %
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Heating up time	1:50 h:min
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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	2.58 kW	4.39 kW
El input	0.60 kW	1.53 kW
COP	4.30	2.84

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	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
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Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.10 kW	2.01 kW
COP Tj = +7°C	5.26	4.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	1.24 kW	1.16 kW
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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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2669 kWh	3152 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	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
C _{dh} T _j = -7 °C	0.990	0.990
P _{dh} T _j = +2°C	2.24 kW	2.06 kW
COP T _j = +2°C	5.27	4.04
C _{dh} T _j = +2 °C	0.970	0.980
P _{dh} T _j = +7°C	1.44 kW	1.41 kW
COP T _j = +7°C	5.40	4.40
C _{dh} T _j = +7 °C	0.960	0.960
P _{dh} T _j = 12°C	0.88 kW	1.19 kW
COP T _j = 12°C	4.91	4.77
C _{dh} T _j = +12 °C	0.940	0.950
P _{dh} T _j = T _{biv}	5.82 kW	5.50 kW
COP T _j = T _{biv}	3.72	2.79
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.82 kW	5.50 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.72	2.79
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}		
WTOL	70 °C	70 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3059 kWh	3631 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
EN 14825 Warmer Climate		
	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	0.990	0.990
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	1.71 kW	3.44 kW
COP Tj = 12°C	5.37	4.24
Cdh Tj = +12 °C	0.960	0.990
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1728 kWh	2066 kWh

Model ecoGEO B3 1-6 PRO

Model name	ecoGEO B3 1-6 PRO
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/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	2.58 kW	4.39 kW
El input	0.60 kW	1.53 kW
COP	4.30	2.84

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	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	0.990	0.990
Pdh Tj = +2°C	3.28 kW	2.73 kW
COP Tj = +2°C	4.68	3.60
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.10 kW	2.01 kW

COP Tj = +7°C	5.26	4.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	1.24 kW	1.16 kW
COP Tj = 12°C	5.44	4.48
Cdh Tj = +12 °C	0.950	0.960
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2669 kWh	3152 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	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	0.990	0.990
Pdh Tj = +2°C	2.24 kW	2.06 kW
COP Tj = +2°C	5.27	4.04
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	1.44 kW	1.41 kW
COP Tj = +7°C	5.40	4.40
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	0.88 kW	1.19 kW
COP Tj = 12°C	4.91	4.77
Cdh Tj = +12 °C	0.940	0.950
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3059 kWh	3631 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	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	0.990	0.990
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	1.71 kW	3.44 kW
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Cdh Tj = +12 °C	0.960	0.990
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1728 kWh	2066 kWh

Model ecoGEO B4 1-6 PRO

Model name	ecoGEO B4 1-6 PRO
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/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	2.58 kW	4.39 kW
El input	0.60 kW	1.53 kW
COP	4.30	2.84

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	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	0.990	0.990
Pdh Tj = +2°C	3.28 kW	2.73 kW
COP Tj = +2°C	4.68	3.60
Cdh Tj = +2 °C	0.980	0.980
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WTOL	70 °C	70 °C
Poff	11 W	11 W
PTO	11 W	11 W
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2669 kWh	3152 kWh

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3059 kWh	3631 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	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	0.990	0.990
Pdh Tj = +7°C	3.86 kW	3.55 kW
COP Tj = +7°C	4.43	3.27
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	1.71 kW	3.44 kW
COP Tj = 12°C	5.37	4.24
Cdh Tj = +12 °C	0.960	0.990
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1728 kWh	2066 kWh