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Summary of	ECOGEO B/C 1 3-12kW	Reg. No.	011-1W0327	
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	AIT Austrian Institute of Technology GmbH			
Subtype title	ECOGEO B/C 1 3-12kW			
Heat Pump Type	Brine/Water			
Refrigerant	R410a			
Mass Of Refrigerant	1 kg			
Certification Date	28.05.2019			



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# Model: ECOGEO C1 T 3-12kW

General Data		
Power supply	3x400V 50Hz	
Off-peak product	Yes	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.30 kW	6.65 kW	
El input	1.60 kW	2.28 kW	
СОР	4.55	2.91	
Indoor water flow rate	1.23 m³/h	0.72 m³/h	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

## Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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EN 14825			
	Low temperature	Medium temperature	
η <sub>s</sub>	198 %	146 %	
Prated	15.00 kW	15.00 kW	
SCOP	4.95	3.65	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	12.42 kW	11.87 kW	
COP Tj = -7°C	4.05	2.81	
Cdh	0.99	0.99	
Pdh Tj = +2°C	8.47 kW	8.48 kW	
COP Tj = +2°C	5.01	3.62	
Cdh	0.99	0.99	
Pdh Tj = +7°C	5.34 kW	5.56 kW	
COP Tj = +7°C	5.61	4.29	
Cdh	0.98	0.99	
Pdh Tj = 12°C	2.45 kW	2.47 kW	
COP Tj = 12°C	5.18	4.38	
Cdh	0.97	0.97	
Pdh Tj = Tbiv	15.16 kW	13.95 kW	
COP Tj = Tbiv	3.63	2.56	

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

# Warmer Climate

EN 14825				
Low temperature Medium temperatu				
η <sub>s</sub>	191 %	148 %		
Prated	15.00 kW	15.00 kW		
SCOP	4.78	3.70		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	15.16 kW	13.36 kW		
COP Tj = +2°C	3.63	2.58		
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I his information was generated by the HP KEYMARK database on 17 Dec 20					
0.99	0.99				
10.48 kW	9.98 kW				
4.38	3.24				
0.99	0.99				
4.67 kW	4.61 kW				
5.50	4.48				
0.98	0.98				
15.16 kW	13.36 kW				
3.63	2.58				
15.16 kW	13.36 kW				
3.63	2.58				
60 °C	60 °C				
11 W	11 W				
11 W	11 W				
11 W	11 W				
0 W	0 W				
Electricity	electricity				
6.00 kW	6.00 kW				
4191 kWh	5340 kWh				
	0.99 10.48 kW 4.38 0.99 4.67 kW 5.50 0.98 15.16 kW 3.63 15.16 kW 3.63 15.16 kW 11.0 11 W 11 W 11 W 11 W 11 W 11 W				

# Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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5	-	
Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99

# Domestic Hot Water (DHW)

## Average Climate



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EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233 I	

### Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233	

# Colder Climate

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EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233 I	



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# Model: ECOGEO C2 T 3-12kW

General Data		
Power supply	3x400V 50Hz	
Off-peak product	Yes	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91
Indoor water flow rate	1.23 m³/h	0.72 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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Pdh Tj = TOL	15.16 kW	13.95 kW	
COP Tj = TOL	3.63	2.56	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	11 W	11 W	
PSB	11 W	11 W	
РСК	0 W	0 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	6266 kWh	8259 kWh	

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.16 kW	13.36 kW
COP Tj = +2°C	3.63	2.58

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# Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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	1	
Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99

### Domestic Hot Water (DHW)

Average Climate



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EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	2331	

### Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233 I	

# Colder Climate

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EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233	



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# Model: ECOGEO B1 T 3-12kW

General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91
Indoor water flow rate	1.23 m³/h	0.72 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

# Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.16 kW	13.36 kW
COP Tj = +2°C	3.63	2.58

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Cdh	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL	15.16 kW	13.36 kW
COP Tj = TOL	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

# Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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	,	
Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99



# Model: ECOGEO B2 T 3-12kW

General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91
Indoor water flow rate	1.23 m³/h	0.72 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

## Warmer Climate

EN 14825		
Low temperature	Medium temperature	
191 %	148 %	
15.00 kW	15.00 kW	
4.78	3.70	
2 °C	2 °C	
2 °C	2 °C	
15.16 kW	13.36 kW	
3.63	2.58	
	Low temperature     191 %     15.00 kW     4.78     2 °C     2 °C     15.16 kW	

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Cdh	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL	15.16 kW	13.36 kW
COP Tj = TOL	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

# Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99

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# Model: ECOGEO C1 3-12kW

General Data		
Power supply	1x230V 50Hz	
Off-peak product	Yes	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.30 kW	6.65 kW	
El input	1.60 kW	2.28 kW	
СОР	4.55	2.91	
Indoor water flow rate	1.23 m³/h	0.72 m³/h	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

## Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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	EN 14825	
	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.16 kW	13.36 kW
COP Tj = +2°C	3.63	2.58
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Cdh	0.99	0.99
$Pdh Tj = +7^{\circ}C$	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL	15.16 kW	13.36 kW
COP Tj = TOL	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

# Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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	1
15.16 kW	13.95 kW
3.63	2.56
60 °C	60 °C
11 W	11 W
11 W	11 W
11 W	11 W
0 W	0 W
Electricity	Electricity
6.00 kW	6.00 kW
7515 kWh	11094 kWh
13.30	12.58
4.16	3.14
0.99	0.99
	3.63   60 °C   11 W   11 W   11 W   0 W   Electricity   6.00 kW   7515 kWh   13.30   4.16

# Domestic Hot Water (DHW)

Average Climate



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EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	2331	

### Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233 I	

# Colder Climate

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EN 16147			
Declared load profile	L		
Efficiency ηDHW	81 %		
СОР	2.00		
Heating up time	01:18:30 h:min		
Standby power input	102.2 W		
Reference hot water temperature	58.1 °C		
Mixed water at 40°C	233 I		



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# Model: ECOGEO C2 1 3-12kW

General Data		
Power supply	1x230V 50Hz	
Off-peak product	Yes	

#### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.30 kW	6.65 kW	
El input	1.60 kW	2.28 kW	
СОР	4.55	2.91	
Indoor water flow rate	1.23 m³/h	0.72 m³/h	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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EN 14825				
	Low temperature	Medium temperature		
η <sub>s</sub>	198 %	146 %		
Prated	15.00 kW	15.00 kW		
SCOP	4.95	3.65		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	12.42 kW	11.87 kW		
COP Tj = -7°C	4.05	2.81		
Cdh	0.99	0.99		
Pdh Tj = +2°C	8.47 kW	8.48 kW		
COP Tj = +2°C	5.01	3.62		
Cdh	0.99	0.99		
Pdh Tj = +7°C	5.34 kW	5.56 kW		
COP Tj = +7°C	5.61	4.29		
Cdh	0.98	0.99		
Pdh Tj = 12°C	2.45 kW	2.47 kW		
COP Tj = 12°C	5.18	4.38		
Cdh	0.97	0.97		
Pdh Tj = Tbiv	15.16 kW	13.95 kW		
COP Tj = Tbiv	3.63	2.56		

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

### Warmer Climate

EN 14825			
	Low temperature	Medium temperature	
η <sub>s</sub>	191 %	148 %	
Prated	15.00 kW	15.00 kW	
SCOP	4.78	3.70	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	15.16 kW	13.36 kW	
COP Tj = +2°C	3.63	2.58	
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17 Dec 2020

## Colder Climate

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	Low temperature	Medium temperature	
η <sub>s</sub>	197 %	130 %	
Prated	15.00 kW	15.00 kW	
SCOP	4.92	3.24	
Tbiv	-10 °C	-10 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	9.89 kW	9.46 kW	
COP Tj = -7°C	4.56	3.73	
Cdh	0.99	0.99	
Pdh Tj = +2°C	6.04 kW	5.90 kW	
COP Tj = +2°C	5.34	4.78	
Cdh	0.98	0.99	
Pdh Tj = +7°C	3.86 kW	3.50 kW	
COP Tj = +7°C	5.54	5.64	
Cdh	0.98	0.98	
Pdh Tj = 12°C	1.97 kW	1.99 kW	
COP Tj = 12°C	4.64	5.99	
Cdh	0.97	0.96	
Pdh Tj = Tbiv	9.67 kW	9.71 kW	
COP Tj = Tbiv	4.75	3.40	

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99

### Domestic Hot Water (DHW)

#### Average Climate



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EN 16147	
Declared load profile	L
Efficiency ηDHW	81 %
СОР	2.00
Heating up time	01:18:30 h:min
Standby power input	102.2 W
Reference hot water temperature	58.1 °C
Mixed water at 40°C	233

#### Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
Standby power input	102.2 W	
Reference hot water temperature	58.1 °C	
Mixed water at 40°C	233 I	

## Colder Climate

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EN 16147	
Declared load profile	L
Efficiency ηDHW	81 %
СОР	2.00
Heating up time	01:18:30 h:min
Standby power input	102.2 W
Reference hot water temperature	58.1 °C
Mixed water at 40°C	233 I



# Model: ECOGEO B1 3-12kW

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91
Indoor water flow rate	1.23 m³/h	0.72 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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15.16 kW	13.95 kW
3.63	2.56
60 °C	60 °C
11 W	11 W
11 W	11 W
11 W	11 W
0 W	0 W
Electricity	Electricity
6.00 kW	6.00 kW
6266 kWh	8259 kWh
	3.63 60 °C 11 W 11 W 11 W 0 W Electricity 6.00 kW

### Warmer Climate

EN 14825		
Low temperature Medium		
191 %	148 %	
15.00 kW	15.00 kW	
4.78	3.70	
2 °C	2 °C	
2 °C	2 °C	
15.16 kW	13.36 kW	
3.63	2.58	
	Low temperature     191 %     15.00 kW     4.78     2 °C     2 °C     15.16 kW	

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Cdh	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL	15.16 kW	13.36 kW
COP Tj = TOL	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

## Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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15.16 kW	13.95 kW
3.63	2.56
60 °C	60 °C
11 W	11 W
11 W	11 W
11 W	11 W
0 W	0 W
Electricity	Electricity
6.00 kW	6.00 kW
7515 kWh	11094 kWh
13.30	12.58
4.16	3.14
0.99	0.99
	3.63 60 °C 11 W 11 W 11 W 0 W Electricity 6.00 kW 7515 kWh 13.30 4.16



# Model: ECOGEO B2 3-12kW

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91
Indoor water flow rate	1.23 m³/h	0.72 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

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	Low temperature	Medium temperature
η <sub>s</sub>	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.87 kW
COP Tj = -7°C	4.05	2.81
Cdh	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.16 kW	13.36 kW
COP Tj = +2°C	3.63	2.58

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j	······································	ARK UALADASE OIT 17 DEC 2020
Cdh	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL	15.16 kW	13.36 kW
COP Tj = TOL	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

## Colder Climate

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	Low temperature	Medium temperature
η <sub>s</sub>	197 %	130 %
Prated	15.00 kW	15.00 kW
SCOP	4.92	3.24
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.46 kW
COP Tj = -7°C	4.56	3.73
Cdh	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40

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Pdh Tj = TOL	15.16 kW	13.95 kW
COP Tj = TOL	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7515 kWh	11094 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL<-20°C)	4.16	3.14
Cdh	0.99	0.99