

Certification Date

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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### <u>Login</u> ECOGEO B/C 1 3-12kW Summary of Reg. No. 011-1W0327 Certificate Holder Name Ecoforest Geotermia S.L. 36350 Address Rúa das Pontes, 25 Zip City Nigrán (Pontevedra) Country Spain DIN CERTCO Gesellschaft für Konformitätsbewertung mbH **Certification Body** Subtype title ECOGEO B/C 1 3-12kW Heat Pump Type Brine/Water Refrigerant R410A Mass of Refrigerant 1 kg

28.05.2019

## Model: ECOGEO C1 T 3-12kW

Configure model		
Model name	ECOGEO C1 T 3-12kW	
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	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	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW





COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	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
$\eta_{S}$	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70



This information was genera	ted by the HP KEYMAR	RK database on 18 Mar 202.
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
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
$COPTj = +7^{\circ}C$	4.38	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

CEN heat pump KEYMARK





Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
$COP Tj = +7^{\circ}C$	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW





This information was genera	ted by the in Reinna	TR database on 10 Mai 202
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	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 Tj = -15 °C	0.99	0.99

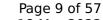
## Domestic Hot Water (DHW)



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 I	





EN 16147		
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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 C2 T 3-12kW**

Configure model			
Model name	ECOGEO C2 T 3-12kW		
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	3x400V 50Hz	
Off-peak product	Yes	

## Heating

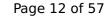
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	198 %	146 %
Prated	15.00 kW	15.00 kW
SCOP	4.95	3.65
Tbiv	-10 °C	-10 °C
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Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
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Pdh Tj = 12°C	2.45 kW	2.47 kW





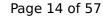
COP Tj = 12°C	5.18	4.38
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WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
	,	



2 °C	2.06
	2 °C
2 °C	2 °C
15.16 kW	13.36 kW
3.63	2.58
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
	15.16 kW 3.63 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 15.10 kW 11 W 11 W





Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW





COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
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РТО	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	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
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Cdh Tj = -15 °C	0.99	0.99

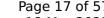
## Domestic Hot Water (DHW)



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
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Reference hot water temperature	58.1 °C
Mixed water at 40°C	233 I





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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 T 3-12kW

Configure model		
Model name	ECOGEO B1 T 3-12kW	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW





COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	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
$\eta_{s}$	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
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I his information was genera	ted by the fill RETHA	TR database on 10 Mai 202
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.16 kW	13.36 kW
$COPTj = +2^{\circ}C$	3.63	2.58
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7$ °C	10.48 kW	9.98 kW
$COPTj = +7^{\circ}C$	4.38	3.24
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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
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Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW



 $$\operatorname{\textit{Page}}\xspace$  23 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
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WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	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
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## **Model: ECOGEO B2 T 3-12kW**

Configure model		
Model name ECOGEO B2 T 3-12kW		
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

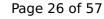
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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
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COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW

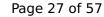




COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.97	0.97
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WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6266 kWh	8259 kWh

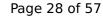
### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70





This information was genera	ted by the Hi KETMAI	TR database on 10 mar 2022
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
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.48 kW	9.98 kW
$COPTj = +7^{\circ}C$	4.38	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
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WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	0 W	o 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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW



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	•	
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	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 Tj = -15 °C	0.99	0.99



## Model: ECOGEO C1 3-12kW

Configure model		
Model name ECOGEO C1 3-12kW		
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	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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
$COPTj = -7^{\circ}C$	4.05	2.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.56 kW
$COP Tj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW





This information	n was generated b	v the HP KEYMARK	database on 18	Mar 2022

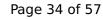
Cdh Tj = +12 °C       0.97       0.97         Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       15.16 kW       13.95 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       3.63       2.56         WTOL       60 °C       60 °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       6.00 kW       6.00 kW			
Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	5.18	4.38
COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.63	2.56
WTOL  60 °C  60 °C  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  6.00 kW  6.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
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 6.00 kW 6.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
PTO 11 W 11 W  PSB 11 W 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	WTOL	60 °C	60 °C
PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	Poff	11 W	11 W
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	РТО	11 W	11 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	PSB	11 W	11 W
Supplementary Heater: PSUP 6.00 kW 6.00 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6266 kWh 8259 kWh	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
$\eta_s$	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
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.98 kW
$COP Tj = +7^{\circ}C$	4.38	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity





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Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	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 Tj = -15 °C	0.99	0.99

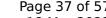
## Domestic Hot Water (DHW)



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 I	





# $$\operatorname{\textit{Page}}\xspace$ 37 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

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 C2 1 3-12kW

Configure model		
Model name	ECOGEO C2 1 3-12kW	
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	7.30 kW	6.65 kW
El input	1.60 kW	2.28 kW
СОР	4.55	2.91

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW

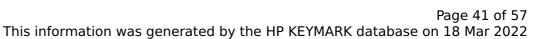




Cdh Tj = +12 °C       0.97       0.97         Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       15.16 kW       13.95 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       3.63       2.56         WTOL       60 °C       60 °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       6.00 kW       6.00 kW			
Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	5.18	4.38
COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.63	2.56
WTOL  60 °C  60 °C  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  6.00 kW  6.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
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 6.00 kW 6.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
PTO 11 W 11 W  PSB 11 W 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	WTOL	60 °C	60 °C
PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	Poff	11 W	11 W
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	РТО	11 W	11 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	PSB	11 W	11 W
Supplementary Heater: PSUP 6.00 kW 6.00 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6266 kWh 8259 kWh	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	
	Low temperature  191 %  15.00 kW	





		NK database on 10 Mai 202.
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}$ C	15.16 kW	13.36 kW
COP Tj = +2°C	3.63	2.58
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.48 kW	9.98 kW
$COP Tj = +7^{\circ}C$	4.38	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = $+12$ °C	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

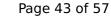




Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

#### Colder Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW





COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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 Tj = -15 °C	0.99	0.99

# Domestic Hot Water (DHW)

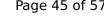


EN 16147	
Declared load profile	L
Efficiency ηDHW	81 %
СОР	2.00
Heating up time	01:18:30 h:min
Standby power input	102.2 W
Reference hot water temperature	58.1 °C
Mixed water at 40°C	233 I

#### 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 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

Configure model	
Model name	ECOGEO B1 3-12kW
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
$COP Tj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW





Cdh Tj = +12 °C       0.97       0.97         Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       15.16 kW       13.95 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       3.63       2.56         WTOL       60 °C       60 °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       6.00 kW       6.00 kW			
Pdh Tj = Tbiv       15.16 kW       13.95 kW         COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	5.18	4.38
COP Tj = Tbiv       3.63       2.56         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.63	2.56
WTOL  60 °C  60 °C  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  6.00 kW  6.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
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 6.00 kW 6.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
PTO 11 W 11 W  PSB 11 W 0 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	WTOL	60 °C	60 °C
PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	Poff	11 W	11 W
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	РТО	11 W	11 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 6.00 kW 6.00 kW	PSB	11 W	11 W
Supplementary Heater: PSUP 6.00 kW 6.00 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6266 kWh 8259 kWh	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	
	Low temperature  191 %  15.00 kW	





2 °C	2.06
	2 °C
2 °C	2 °C
15.16 kW	13.36 kW
3.63	2.58
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
	15.16 kW 3.63 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 15.10 kW 11 W 11 W





Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

#### Colder Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.86 kW	3.50 kW
COP Tj = +7°C	5.54	5.64
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.97 kW	1.99 kW



COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	o 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 Tj = -15 °C	0.99	0.99
I control of the cont		



# Model: ECOGEO B2 3-12kW

Configure model		
Model name ECOGEO B2 3-12kW		
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility No		
Cooling mode application (optional) n/a		

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

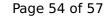
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting on the heat transfer medium now	passeu
Complete power supply failure	passed
Starting and operating test	passed



 $$\operatorname{\textsc{Page}}\xspace$  53 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.45 kW	2.47 kW





COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	15.16 kW	13.95 kW
COP Tj = Tbiv	3.63	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	o 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

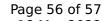
EN 14825		
	Low temp	perature Medium temperature
$\eta_{S}$	191 %	148 %
Prated	15.00 kW	15.00 kW
SCOP	4.78	3.70
	·	



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was genera		
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
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.48 kW	9.98 kW
$COPTj = +7^{\circ}C$	4.38	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.16 kW	13.36 kW
COP Tj = Tbiv	3.63	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.58
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	6.00 kW	6.00 kW
Annual energy consumption Qhe	4191 kWh	5340 kWh

#### Colder Climate

EN 14825				
	Low temperature	Medium temperature		
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99		
Pdh Tj = +2°C	6.04 kW	5.90 kW		
COP Tj = +2°C	5.34	4.78		
Cdh Tj = +2 °C	0.98	0.99		
Pdh Tj = +7°C	3.86 kW	3.50 kW		
COP Tj = +7°C	5.54	5.64		
Cdh Tj = +7 °C	0.98	0.98		
Pdh Tj = 12°C	1.97 kW	1.99 kW		



The same same games as		
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.97	0.96
Pdh Tj = Tbiv	9.67 kW	9.71 kW
COP Tj = Tbiv	4.75	3.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	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	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 Tj = -15 °C	0.99	0.99
I and the second	1	1