

Summary of	ECOGEO B/C 3 1-9kW	Reg. No.	011-1W0329
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 B/C 3 1-9kW		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1 kg		
Certification Date	28.05.2019		



Model: ECOGEO C3 T 1-9kW

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

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.12 kW	4.80 kW	
El input	0.91 kW	1.70 kW	
СОР	4.52	2.83	

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	54 dB(A)	54 dB(A)	



EN 14825			
	Low temperature	Medium temperature	
η_{s}	193 %	140 %	
Prated	11.00 kW	11.00 kW	
SCOP	4.84	3.51	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.69 kW	9.46 kW	
COP Tj = -7°C	3.81	2.60	
Cdh	0.990	0.990	
Pdh Tj = +2°C	5.98 kW	6.07 kW	
COP Tj = +2°C	4.89	3.52	
Cdh	0.990	0.990	
Pdh Tj = +7°C	3.81 kW	3.95 kW	
COP Tj = +7°C	5.74	4.31	
Cdh	0.980	0.980	
Pdh Tj = 12°C	1.73 kW	1.67 kW	
COP Tj = 12°C	4.93	3.80	
Cdh	0.960	0.970	
Pdh Tj = Tbiv	10.85 kW	10.06 kW	
COP Tj = Tbiv	3.52	2.38	





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



Page 5 of 61 This information was generated by the HP KEYMARK database on 1 Mar 2021

		THE GULUDUSC OIL I MAI 202
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COPTj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh



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

Colder Climate

EN 14825			
	Low temperature	Medium temperature	
η_{s}	196 %	130 %	
Prated	11.00 kW	11.00 kW	
SCOP	4.91	3.25	
Tbiv	-10 °C	-10 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7° C	7.17 kW	6.81 kW	
COP Tj = -7°C	4.47	3.62	
Cdh	0.990	0.990	
Pdh Tj = +2°C	4.33 kW	4.19 kW	
COP Tj = +2°C	5.47	4.96	
Cdh	0.980	0.980	
Pdh Tj = +7°C	2.73 kW	2.69 kW	
$COP Tj = +7^{\circ}C$	5.74	6.00	
Cdh	0.970	0.970	



Page 7 of 61 This information was generated by the HP KEYMARK database on 1 Mar 2021

	<u>. </u>	
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL<-20°C)	4.20	3.09
Cdh	0.99	0.99

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

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	

Warmer Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	



Model: ECOGEO C4 T 1-9kW

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

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.12 kW	4.80 kW	
El input	0.91 kW	1.70 kW	
СОР	4.52	2.83	

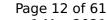
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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



	EN 14825			
Low temperature Medium temperature				
η_{s}	193 %	140 %		
Prated	11.00 kW	11.00 kW		
SCOP	4.84	3.51		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	9.69 kW	9.46 kW		
COP Tj = -7°C	3.81	2.60		
Cdh	0.990	0.990		
Pdh Tj = +2°C	5.98 kW	6.07 kW		
COP Tj = +2°C	4.89	3.52		
Cdh	0.990	0.990		
Pdh Tj = +7°C	3.81 kW	3.95 kW		
COP Tj = +7°C	5.74	4.31		
Cdh	0.980	0.980		
Pdh Tj = 12°C	1.73 kW	1.67 kW		
COP Tj = 12°C	4.93	3.80		
Cdh	0.960	0.970		
Pdh Tj = Tbiv	10.85 kW	10.06 kW		
COP Tj = Tbiv	3.52	2.38		





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



Page 13 of 61 This information was generated by the HP KEYMARK database on 1 Mar 2021

·····s ·····aus ys···s	· · · · · /	
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COPTj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh

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

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15 °C (if TOL< -20 °C)	4.20	3.09
Cdh	0.99	0.99

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

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	

Warmer Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	78 %
СОР	1.73
Heating up time	01:23:00 h:min
Standby power input	158.9 W
Reference hot water temperature	57.8 °C
Mixed water at 40°C	224

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	



Model: ECOGEO B3 T 1-9kW

General Data	
Power supply	3x400V 50Hz

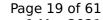
Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.12 kW	4.80 kW
El input	0.91 kW	1.70 kW
СОР	4.52	2.83

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

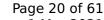
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.990	0.990
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.960	0.970
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COP Tj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh

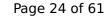
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL<-20°C)	4.20	3.09
Cdh	0.99	0.99





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



Model: ECOGEO B4 T 1-9kW

General Data	
Power supply 3x400V 50Hz	

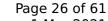
Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.12 kW	4.80 kW
El input	0.91 kW	1.70 kW
СОР	4.52	2.83

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

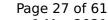
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.990	0.990
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.960	0.970
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38

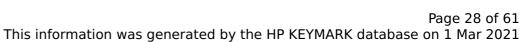




Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38





This information was gener	acea by the in Rein	THE GUILDUSC OFF I FIGH 202
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COP Tj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh

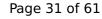
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



	<u> </u>	
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15 °C (if TOL< -20 °C)	4.20	3.09
Cdh	0.99	0.99





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



Model: ECOGEO C3 1-9kW

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

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.12 kW	4.80 kW
El input	0.91 kW	1.70 kW
СОР	4.52	2.83

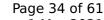
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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



EN 14825		
	Medium temperature	
η_{s}	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.990	0.990
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.960	0.970
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

	Low temperature	e Medium temperature
n _s	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



Page 35 of 61 This information was generated by the HP KEYMARK database on 1 Mar 2021

·····s ·····aus ys···s	· · · · · /	
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COPTj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh

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

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL $<$ -20°C)	4.20	3.09
Cdh	0.99	0.99



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

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	

Warmer Climate



EN 16147	
Declared lead worfile	
Declared load profile	L
Efficiency ηDHW	78 %
СОР	1.73
Heating up time	01:23:00 h:min
Standby power input	158.9 W
Reference hot water temperature	57.8 °C
Mixed water at 40°C	224 I

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	



Model: ECOGEO C4 1-9kW

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

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.12 kW	4.80 kW
El input	0.91 kW	1.70 kW
СОР	4.52	2.83

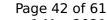
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting on the heat transfer medium now	passeu
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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



EN 14825		
	Low temperature	Medium temperature
η_{s}	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.990	0.990
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.960	0.970
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



rine initiation has going	· · ·	
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COPTj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh



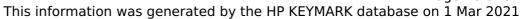
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



	-	
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL $<$ -20°C)	4.20	3.09
Cdh	0.99	0.99





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

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	

Warmer Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	78 %
СОР	1.73
Heating up time	01:23:00 h:min
Standby power input	158.9 W
Reference hot water temperature	57.8 °C
Mixed water at 40°C	224

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	78 %	
СОР	1.73	
Heating up time	01:23:00 h:min	
Standby power input	158.9 W	
Reference hot water temperature	57.8 °C	
Mixed water at 40°C	224	



Model: ECOGEO B3 1-9kW

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	4.12 kW	4.80 kW
El input	0.91 kW	1.70 kW
СОР	4.52	2.83

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	54 dB(A)	54 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.990	0.990
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.960	0.970
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

	EN 14825	
	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



	teed by the in italin	THE GALADASE OF I MAI 202
Cdh	0.990	0.990
Pdh Tj = +7°C	7.62 kW	7.21 kW
$COPTj = +7^{\circ}C$	4.31	3.12
Cdh	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh	0.980	0.980
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	3062 kWh	4033 kWh



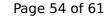
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	0.15 kW	0.94 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL<-20°C)	4.20	3.09
Cdh	0.99	0.99





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



Model: ECOGEO B4 1-9kW

General Data	
Power supply 1x230V 50Hz	

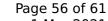
Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.12 kW	4.80 kW	
El input	0.91 kW	1.70 kW	
СОР	4.52	2.83	

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

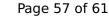
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)





EN 14825

	Low temperature	Medium temperature
η _s	193 %	140 %
Prated	11.00 kW	11.00 kW
SCOP	4.84	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.69 kW	9.46 kW
COP Tj = -7°C	3.81	2.60
Cdh	0.99	0.99
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh	0.99	0.99
Pdh Tj = +7°C	3.81 kW	3.95 kW
$COP Tj = +7^{\circ}C$	5.74	4.31
Cdh	0.98	0.98
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh	0.96	0.97
Pdh Tj = Tbiv	10.85 kW	10.06 kW
COP Tj = Tbiv	3.52	2.38





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	4699 kWh	6418 kWh

Warmer Climate

		NA - di Louis a sustant
	Low temperature	Medium temperature
η_{s}	192 %	144 %
Prated	11.00 kW	11.00 kW
SCOP	4.80	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.85 kW	10.06 kW
COP Tj = +2°C	3.52	2.38



This information was generated by the Hi KETMAKK database on I Mai 2021			
Cdh	0.99	0.99	
Pdh Tj = +7°C	7.62 kW	7.21 kW	
$COP Tj = +7^{\circ}C$	4.31	3.12	
Cdh	0.99	0.99	
Pdh Tj = 12°C	3.33 kW	3.26 kW	
COP Tj = 12°C	5.72	4.50	
Cdh	0.98	0.98	
Pdh Tj = Tbiv	10.85 kW	10.06 kW	
COP Tj = Tbiv	3.52	2.38	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38	
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	4.00 kW	4.00 kW	
Annual energy consumption Qhe	3062 kWh	4033 kWh	



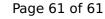
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	130 %
Prated	11.00 kW	11.00 kW
SCOP	4.91	3.25
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh	0.980	0.980
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh	0.970	0.970



Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh	0.960	0.950
Pdh Tj = Tbiv	7.59 kW	7.56 kW
COP Tj = Tbiv	4.53	3.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.85 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.52	2.38
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5522 kWh	8260 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.90	9.31
COP Tj = -15°C (if TOL<-20°C)	4.20	3.09
Cdh	0.99	0.99





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