

Page 1 of 61

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Login

Summary of	ECOGEO B/C 3 3-12kW	Reg. No.	011-1W0330	
Certificate Holder		'		
Name	Ecoforest Geotermia S.L.	Ecoforest Geotermia S.L.		
Address	Rúa das Pontes, 25	Zip	36350	
City	Nigrán (Pontevedra)	Country	Spain	
Certification Body	DIN CERTCO Gesellschaft für Ko	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	ECOGEO B/C 3 3-12kW	ECOGEO B/C 3 3-12kW		
Heat Pump Type	Brine/Water			
Refrigerant	R410A	R410A		
Mass of Refrigerant	1 kg	1 kg		
Certification Date	28.05.2019	28.05.2019		



Model: ecoGEO C3T 3-12kW

Configure model		
Model name	ecoGEO C3T 3-12kW	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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	
Defrost test	passed	
Starting and operating test	passed	

Warmer 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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.16 kW	13.95 kW

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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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4192 kWh	5256 kWh

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}	188 %	163 %





Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	9.89 kW	9.46 kW
$COP Tj = -7^{\circ}C$	4.56	3.73
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2^{\circ}$ C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.86 kW	3.50 kW
$COP Tj = +7^{\circ}C$	5.54	5.64
Cdh Tj = $+7$ °C	0.980	0.980
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		





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	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 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
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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +2°C	8.47 kW	8.48 kW
$COPTj = +2^{\circ}C$	5.01	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7$ °C	5.34 kW	5.56 kW
$COPTj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	15.16 kW	13.95 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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 0.00 kW 0.00 kW Supplementary Heater: PSUP 6266 kWh Annual energy consumption Qhe 8231 kWh

Domestic Hot Water (DHW)

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	



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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Mixed water at 40°C	233 I	

Model: ecoGEO C4T 3-12kW

Configure model		
Model name ecoGEO C4T 3-12kW		
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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	
Defrost test	passed	
Starting and operating test	passed	

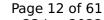
Warmer Climate



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}	183 %	140 %
Prated	15.00 kW	14.55 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
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4192 kWh	5256 kWh

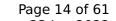
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	188 %	163 %





Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
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COP Tj = -7° C	4.56	3.73
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	6.04 kW	5.90 kW
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Pdh Tj = 12°C	1.97 kW	1.99 kW
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Pdh Tj = Tbiv	15.16 kW	13.95 kW
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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 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

Average Climate

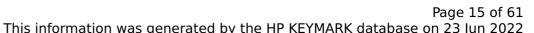
Cdh Tj = -15 $^{\circ}$ C

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

0.99

0.99

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 kW
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This information was gene	rated by the HP KEYM	ARK database on 23 Jun 202
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
$COP Tj = -7^{\circ}C$	4.05	2.81
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	8.47 kW	8.48 kW
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Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.56 kW
$COP Tj = +7^{\circ}C$	5.61	4.29
Cdh Tj = $+7$ °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
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 0.00 kW 0.00 kW Supplementary Heater: PSUP 6266 kWh Annual energy consumption Qhe 8231 kWh

Domestic Hot Water (DHW)

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



EN 16147	
Declared load profile	L
Efficiency ηDHW	81 %
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Standby power input	102.2 W
Reference hot water temperature	58.1 °C
Mixed water at 40°C	233 I



Model: ecoGEO C3 3-12kW

Configure model		
Model name	ecoGEO C3 3-12kW	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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
Defrost test	passed
Starting and operating test	passed

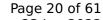
Warmer Climate



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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
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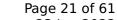




3.63	2.56
15.16 kW	13.95 kW
3.63	2.56
60 °C	60 °C
11 W	11 W
11 W	11 W
11 W	11 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
4192 kWh	5256 kWh
	15.16 kW 3.63 60 °C 11 W 11 W 11 W 0 W Electricity 0.00 kW

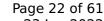
EN 12102-1		
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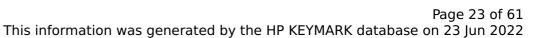




WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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	Low temperature	Medium temperature
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Low temperature	Medium temperature
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	60 °C	60 °C



	o	waa aa
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6266 kWh	8231 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	81 %	
СОР	2.00	
Heating up time	01:18:30 h:min	
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Configure model		
Model name	ecoGEO C4 3-12kW	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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
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Shutting off the heat transfer medium flow	passed	
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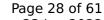
Warmer Climate



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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.16 kW	13.95 kW

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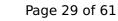




COP Tj = Tbiv	3.63	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4192 kWh	5256 kWh

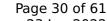
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	188 %	163 %





I I I I I I I I I I I I I I I I I I I		The database of 23 Juli 202
Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
Tbiv	-22 °C	-22 °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	0.990	0.990
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.86 kW	3.50 kW
$COPTj = +7^{\circ}C$	5.54	5.64
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
	•	•

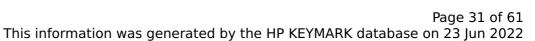




WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL $<$ -20°C)	4.16	3.14
Cdh Tj = -15 °C	0.99	0.99

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

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 kW
_	





-		KK database on 23 jun 202
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	0.990	0.990
Pdh Tj = +2°C	8.47 kW	8.48 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.56 kW
$COPTj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6266 kWh	8231 kWh

Domestic Hot Water (DHW)

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	
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

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 B3T 3-12kW

Configure model	
Model name	ecoGEO B3T 3-12kW
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
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	
Defrost test	passed	
Starting and operating test	passed	

Warmer 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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.16 kW	13.95 kW

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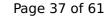




COP Tj = Tbiv 3.63 2.56 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 15.16 kW 13.95 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.63 2.56 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 60 °C 60 °C Poff 11 W 11 W PTO 11 W 11 W PSB 11 W 11 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW Annual energy consumption Qhe 4192 kWh 5256 kWh			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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 0.00 kW	COP Tj = Tbiv	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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 0.00 kW 0.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
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 0.00 kW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Poff 11 W 11 W PTO 11 W 11 W PSB 11 W 11 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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 0.00 kW 0.00 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 0.00 kW 0.00 kW	Poff	11 W	11 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	РТО	11 W	11 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	11 W	11 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 4192 kWh 5256 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	4192 kWh	5256 kWh

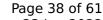
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	188 %	163 %
	I	





Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	9.89 kW	9.46 kW
$COPTj = -7^{\circ}C$	4.56	3.73
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.86 kW	3.50 kW
$COP Tj = +7^{\circ}C$	5.54	5.64
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		



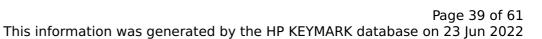


WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL $<$ -20°C)	4.16	3.14
Cdh Tj = -15 °C	0.99	0.99

Average Climate

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

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +2°C	8.47 kW	8.48 kW
$COPTj = +2^{\circ}C$	5.01	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.34 kW	5.56 kW
$COPTj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		



Page 40 of 61

Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6266 kWh	8231 kWh



Model: ecoGEO B4T 3-12kW

Configure model		
Model name	ecoGEO B4T 3-12kW	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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
Defrost test	passed
Starting and operating test	passed

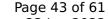
Warmer Climate



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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.16 kW	13.95 kW

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This information was genera	ated by the HP KEYMA	RK database on 23 Jun 202
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	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	0.00 kW	0.00 kW

Colder Climate

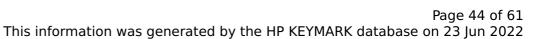
Annual energy consumption Qhe

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

4192 kWh

5256 kWh

EN 14825		
	Low temperature	Medium temperature
η_{S}	188 %	163 %





Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
Tbiv	-22 °C	-22 °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	0.990	0.990
Pdh Tj = $+2$ °C	6.04 kW	5.90 kW
$COP Tj = +2^{\circ}C$	5.34	4.78
Cdh Tj = $+2$ °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.86 kW	3.50 kW
$COP Tj = +7^{\circ}C$	5.54	5.64
Cdh Tj = $+7$ °C	0.980	0.980
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		





ins institution was genera	tea by the in Reinna	database on 25 jan 2022
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 kWh
Pdh Tj = -15 °C (if TOL< -20 °C)	13.30	12.58

4.16

0.99

3.14

0.99

Average Climate

Cdh Tj = -15 $^{\circ}$ C

COP Tj = -15°C (if TOL<-20°C)

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

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 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
$COP Tj = -7^{\circ}C$	4.05	2.81
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	8.47 kW	8.48 kW
$COPTj = +2^{\circ}C$	5.01	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.56 kW
$COPTj = +7^{\circ}C$	5.61	4.29
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



Page 47 of 61

Poff	11 W	11 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6266 kWh	8231 kWh



Model: ecoGEO B3 3-12kW

Configure model		
Model name	ecoGEO B3 3-12kW	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

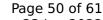
Warmer Climate



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}	183 %	140 %
Prated	15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +7°C	10.48 kW	9.98 kW
COP Tj = +7°C	4.38	3.24
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.67 kW	4.61 kW
COP Tj = 12°C	5.50	4.48
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.16 kW	13.95 kW

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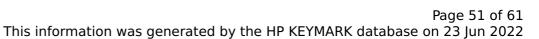


COP Tj = Tbiv	3.63	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	13.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4192 kWh	5256 kWh

Colder Climate

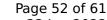
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

Low temp	perature Medium temperature
	Jerature Medium temperature
η _s 188 %	163 %





Prated	15.00 kW	14.55 kW
SCOP	4.89	4.27
Tbiv	-22 °C	-22 °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	0.990	0.990
Pdh Tj = +2°C	6.04 kW	5.90 kW
COP Tj = +2°C	5.34	4.78
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.86 kW	3.50 kW
$COP Tj = +7^{\circ}C$	5.54	5.64
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.97 kW	1.99 kW
COP Tj = 12°C	4.64	5.99
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		



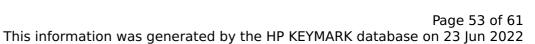


WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7564 kWh	8397 kWh
Pdh Tj = -15°C (if TOL<-20°C)	13.30	12.58
COP Tj = -15°C (if TOL $<$ -20°C)	4.16	3.14
Cdh Tj = -15 °C	0.99	0.99
· · · · · · · · · · · · · · · · · · ·		

Average Climate

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

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 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	0.990	0.990
Pdh Tj = +2°C	8.47 kW	8.48 kW
COPTj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.56 kW
COP Tj = +7°C	5.61	4.29
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.45 kW	2.47 kW
COP Tj = 12°C	5.18	4.38
Cdh Tj = +12 °C	0.970	0.970
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$		
WTOL	60 °C	60 °C



Page 54 of 61

Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6266 kWh	8231 kWh



Model: ecoGEO B4 3-12kW

Configure model		
Model name	ecoGEO B4 3-12kW	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
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
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

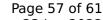
Warmer Climate



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}	183 %	140 %		
Prated	15.00 kW	14.55 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	0.990	0.990		
Pdh Tj = +7°C	10.48 kW	9.98 kW		
COP Tj = +7°C	4.38	3.24		
Cdh Tj = +7 °C	0.990	0.990		
Pdh Tj = 12°C	4.67 kW	4.61 kW		
COP Tj = 12°C	5.50	4.48		
Cdh Tj = +12 °C	0.980	0.980		
Pdh Tj = Tbiv	15.16 kW	13.95 kW		

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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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4192 kWh	5256 kWh

Colder Climate

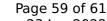
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Sound power level indoor	54 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	188 %	163 %





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WTOL	60 °C	60 °C
Poff	11 W	11 W
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Average Climate

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

Low temperature	Medium temperature
190 %	138 %
15.00 kW	14.55 kW
	190 %





SCOP	4.95	3.65
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TOL	-10 °C	-10 °C
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.63	2.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



Page 61 of 61

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	0.00 kW	0.00 kW
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