

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	ecoAIR 3-12 PRO	Reg. No.	011-1W0428
Certificate Holder			
Name	Ecoforest Geotermia S.L.		
Address	Rúa das Pontes, 25	Zip	36350
City	Nigrán (Pontevedra)	Country	Spain
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Danish Technological Institute (DTI)		
Subtype title	ecoAIR 3-12 PRO		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass Of Refrigerant	0.85 kg		
Certification Date	17.11.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: ECOAIR T 3-12 PRO

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-4

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

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.30 kW	4.60 kW
El input	1.11 kW	1.60 kW
COP	4.80	2.90
Indoor water flow rate	0.93 m ³ /h	0.51 m ³ /h

Average Climate

EN 14825

	Low temperature	Medium temperature

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η_s	154 %	125 %
Prated	6.50 kW	6.50 kW
SCOP	3.93	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.76 kW	5.76 kW
COP Tj = -7°C	2.72	2.02
Cdh	1.00	1.00
Pdh Tj = +2°C	3.55 kW	3.56 kW
COP Tj = +2°C	4.25	3.20
Cdh	0.99	0.99
Pdh Tj = +7°C	2.31 kW	2.31 kW
COP Tj = +7°C	4.53	4.24
Cdh	0.98	0.98
Pdh Tj = 12°C	2.52 kW	2.56 kW
COP Tj = 12°C	4.26	4.50
Cdh	0.98	0.98
Pdh Tj = Tbiv	5.76 kW	5.76 kW
COP Tj = Tbiv	2.72	2.02
Pdh Tj = TOL	5.68 kW	5.65 kW
COP Tj = TOL	2.58	1.90

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WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.82 kW	0.85 kW
Annual energy consumption Qhe	3418 kWh	41900 kWh

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

Warmer Climate

EN 14825

	Low temperature	Medium temperature
η_s	175 %	150 %
Prated	6.30 kW	6.10 kW
SCOP	4.45	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C

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Pdh Tj = +2°C	6.32 kW	6.13 kW
COP Tj = +2°C	2.62	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	5.34	3.80
Cdh	0.99	0.99
Pdh Tj = 12°C	2.57 kW	2.61 kW
COP Tj = 12°C	4.41	4.51
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.32 kW	6.13 kW
COP Tj = Tbiv	2.62	1.90
Pdh Tj = TOL	6.32 kW	6.13 kW
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PTO	10 W	10 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1890 kWh	2133 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	136 %	113 %
Prated	6.60 kW	6.60 kW
SCOP	3.47	2.89
Tbiv	-12 °C	-12 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.06 kW	4.05 kW
COP Tj = -7°C	3.52	2.55
Cdh	0.99	0.99
Pdh Tj = +2°C	2.47 kW	2.41 kW
COP Tj = +2°C	4.48	3.70
Cdh	0.98	0.99
Pdh Tj = +7°C	2.32 kW	2.32 kW
COP Tj = +7°C	4.50	4.46
Cdh	0.98	0.98

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Pdh Tj = 12°C	2.54 kW	2.57 kW
COP Tj = 12°C	4.28	4.48
Cdh	0.98	0.98
Pdh Tj = Tbiv	4.86 kW	4.86 kW
COP Tj = Tbiv	2.74	2.09
Pdh Tj = TOL	5.04 kW	4.98 kW
COP Tj = TOL	2.64	2.04
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.89 kW	1.61 kW
Annual energy consumption Qhe	4692 kWh	5628 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.04	4.98
COP Tj = -15°C (if TOL<-20°C)	2.64	2.04
Cdh	1.00	1.00

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EN 12102-1		
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Model: ECOAIR 3-12 PRO

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