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Summary of	ECOAIR EVI 3-12kW	Reg. No.	011-1W0325
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	ECOAIR EVI 3-12kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.5 kg		
Certification Date	12.11.2019		

Model: ECOAIR EVI T 3-12kW

General Data	
Power supply	3x400V 50Hz

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	6.00 kW	6.29 kW
El input	1.31 kW	1.98 kW
COP	4.57	3.18

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	150 %
Prated	7.00 kW	8.00 kW
SCOP	4.64	3.82
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.71 kW	7.47 kW
COP Tj = -7°C	3.75	2.77
Cdh	0.990	1.000
Pdh Tj = +2°C	3.99 kW	4.48 kW
COP Tj = +2°C	4.63	3.85
Cdh	0.990	0.990
Pdh Tj = +7°C	2.63 kW	2.99 kW
COP Tj = +7°C	5.44	4.47
Cdh	0.980	0.990

Pdh Tj = 12°C	2.32 kW	2.20 kW
COP Tj = 12°C	6.03	5.44
Cdh	0.980	0.980
Pdh Tj = Tbiv	6.09 kW	7.08 kW
COP Tj = Tbiv	2.64	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.57 kW	7.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.49
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	0.55 kW
Annual energy consumption Qhe	3115 kWh	4330 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	205 %	160 %
Prated	5.00 kW	7.00 kW

SCOP	5.19	4.06
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.95 kW	6.71 kW
COP Tj = +2°C	3.17	2.31
Cdh	0.990	1.000
Pdh Tj = +7°C	3.82 kW	4.62 kW
COP Tj = +7°C	5.45	3.98
Cdh	0.990	0.990
Pdh Tj = 12°C	2.15 kW	2.18 kW
COP Tj = 12°C	5.89	4.71
Cdh	0.980	0.980
Pdh Tj = Tbiv	4.95 kW	6.71 kW
COP Tj = Tbiv	3.17	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.95 kW	6.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.17	2.31
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	8 W	8 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	1288 kWh	2302 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	65 dB(A)	65 dB(A)

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	161 %	167 %
Prated	6.80 kW	6.80 kW
SCOP	3.92	4.26
Tbiv	-14 °C	-14 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.38 kW	4.50 kW
COP Tj = -7°C	3.96	3.71
Cdh	0.990	0.990
Pdh Tj = +2°C	2.51 kW	2.63 kW
COP Tj = +2°C	4.67	5.33

Cdh	0.980	0.980
Pdh Tj = +7°C	2.03 kW	2.47 kW
COP Tj = +7°C	5.28	7.73
Cdh	0.970	0.970
Pdh Tj = 12°C	2.23 kW	2.25 kW
COP Tj = 12°C	6.83	7.24
Cdh	0.970	0.970
Pdh Tj = Tbiv	5.45 kW	5.73 kW
COP Tj = Tbiv	2.35	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.30 kW	6.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	2.33
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.60 kW
Annual energy consumption Qhe	4079 kWh	3935 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.65	5.96
COP Tj = -15°C (if TOL<-20°C)	3.23	2.13

Cdh	1.000	1.000

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	65 dB(A)	65 dB(A)

Model: ECOAIR EVI 3-12kW

General Data	
Power supply	1x230V 50Hz

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	6.00 kW	6.29 kW
El input	1.31 kW	1.98 kW
COP	4.57	3.18

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	150 %
Prated	7.00 kW	8.00 kW
SCOP	4.64	3.82
Tbiv	-8 °C	-8 °C
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
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