

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

Summary of	ecoAIR EVI 4-20 kW	Reg. No.	011-1W0196
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 EVI 4-20 kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.5 kg		
Certification Date	06.01.2020		

Model: ECOAIR EVI 4-20kW

General Data

Power supply	1x230V 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	9.22 kW	9.37 kW
El input	1.85 kW	2.82 kW
COP	4.97	3.33
Indoor water flow rate	1.60 m ³ /h	1.03 m ³ /h

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	179 %	151 %
Prated	13.23 kW	13.88 kW
SCOP	4.56	3.85
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.26 kW	11.95 kW
COP Tj = -7°C	3.34	2.66
Cdh	0.99	1.00
Pdh Tj = +2°C	7.62 kW	7.85 kW
COP Tj = +2°C	4.79	4.06
Cdh	0.99	0.99
Pdh Tj = +7°C	5.38 kW	5.32 kW
COP Tj = +7°C	5.14	4.16
Cdh	0.98	0.98

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Pdh Tj = 12°C	4.50 kW	4.56 kW
COP Tj = 12°C	7.57	7.09
Cdh	0.96	0.96
Pdh Tj = Tbiv	13.23 kW	13.88 kW
COP Tj = Tbiv	2.74	2.14
Pdh Tj = TOL	13.23 kW	13.88 kW
COP Tj = TOL	2.74	2.14
WTOL	60 °C	60 °C
Poff	28 W	25 W
PTO	24 W	24 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5794 kWh	7330 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	206 %	159 %
Prated	13.70 kW	15.16 kW
SCOP	5.22	4.06
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.70 kW	15.16 kW
COP Tj = +2°C	3.11	2.42
Cdh	1.00	1.00
Pdh Tj = +7°C	9.67 kW	10.03 kW
COP Tj = +7°C	5.11	3.78
Cdh	0.99	0.99
Pdh Tj = 12°C	4.57 kW	4.65 kW
COP Tj = 12°C	6.78	5.18
Cdh	0.96	0.97
Pdh Tj = Tbiv	13.70 kW	15.16 kW
COP Tj = Tbiv	3.11	2.42
Pdh Tj = TOL	13.70 kW	15.16 kW
COP Tj = TOL	3.11	2.42
WTOL	60 °C	60 °C

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Poff	28 W	25 W
PTO	24 W	24 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	3239 kWh	4689 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	158 %	125 %
Prated	12.00 kW	12.50 kW
SCOP	4.02	3.20
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C

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Pdh Tj = -7°C	7.19 kW	6.80 kW
COP Tj = -7°C	4.15	3.38
Cdh	0.99	0.99
Pdh Tj = +2°C	4.66 kW	4.29 kW
COP Tj = +2°C	5.86	5.94
Cdh	0.97	0.97
Pdh Tj = +7°C	4.15 kW	4.07 kW
COP Tj = +7°C	7.39	8.27
Cdh	0.96	0.95
Pdh Tj = 12°C	4.54 kW	4.58 kW
COP Tj = 12°C	9.85	12.83
Cdh	0.95	0.93
Pdh Tj = Tbiv	10.21 kW	10.05 kW
COP Tj = Tbiv	2.63	2.15
Pdh Tj = TOL	10.21 kW	10.05 kW
COP Tj = TOL	2.63	2.15
WTOL	60 °C	60 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7244 kWh	9488 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	10.21	10.05
COP T _j = -15°C (if TOL<-20°C)	2.63	2.15
C _{dh}	0.99	1.00

Model: ECOAIR EVI T 4-20kW

General Data

Power supply	3x400V 50Hz
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