

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 Institu	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

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
СОР	4.97	3.33
Indoor water flow rate	1.60 m³/h	1.03 m³/h

Average 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}	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
РТО	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)





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





Poff	28 W	25 W
РТО	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
Poff	28 W	25 W
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РСК	24 W	24 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7244 kWh	9488 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.21	10.05
COP Tj = -15°C (if TOL<-20°C)	2.63	2.15
Cdh	0.99	1.00



Model: ECOAIR EVI T 4-20kW

General Data		
Power supply	3x400V 50Hz	

Heating

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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				
СОР	4.97	3.33				
Indoor water flow rate	1.60 m³/h	1.03 m³/h				

Average Climate

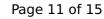


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Warmer Climate

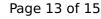
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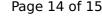
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