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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		
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

Configure model	
Model name	ECOAIR EVI 4-20kW
Application	Heating (medium temp)
Units	Indoor + Outdoor
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	9.22 kW	9.37 kW
El input	1.85 kW	2.82 kW
COP	4.97	3.33

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

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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
$\eta_s$	207 %	159 %
Prated	13.70 kW	15.16 kW
SCOP	5.24	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 Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	9.67 kW	10.03 kW
COP Tj = +7°C	5.11	3.78
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.57 kW	4.65 kW
COP Tj = 12°C	6.78	5.18
Cdh Tj = +12 °C	0.960	0.970

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Pdh Tj = Tbiv	13.70 kW	15.16 kW
COP Tj = Tbiv	3.11	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.70 kW	15.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.11	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3493 kWh	4994 kWh

## Colder Climate

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

<b>EN 14825</b>
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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	167 %	157 %
Prated	12.00 kW	12.50 kW
SCOP	4.25	4.00
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	7.19 kW	7.67 kW
COP Tj = -7°C	4.15	3.33
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.66 kW	4.29 kW
COP Tj = +2°C	5.86	5.94
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	4.15 kW	4.07 kW
COP Tj = +7°C	7.39	8.27
Cdh Tj = +7 °C	0.960	0.950
Pdh Tj = 12°C	4.54 kW	4.58 kW
COP Tj = 12°C	9.85	12.83
Cdh Tj = +12 °C	0.950	0.930
Pdh Tj = Tbiv	10.21 kW	10.05 kW
COP Tj = Tbiv	2.63	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.21 kW	10.05 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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	12.00 kW	12.50 kW
Annual energy consumption Qhe	6963 kWh	7705 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 Tj = -15 °C	0.990	0.990

## Average Climate

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

<b>EN 14825</b>
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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	180 %	151 %
Prated	13.23 kW	13.88 kW
SCOP	4.57	3.84
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 Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.62 kW	7.85 kW
COP Tj = +2°C	4.79	4.06
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.38 kW	5.32 kW
COP Tj = +7°C	5.14	4.16
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	4.50 kW	4.56 kW
COP Tj = 12°C	7.57	7.09
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	13.23 kW	13.88 kW
COP Tj = Tbiv	2.74	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.23 kW	13.88 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	5983 kWh	7465 kWh



## Model: ECOAIR EVI T 4-20kW

Configure model	
Model name	ECOAIR EVI T 4-20kW
Application	Heating (medium temp)
Units	Indoor + Outdoor
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	9.22 kW	9.37 kW
El input	1.85 kW	2.82 kW
COP	4.97	3.33

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
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### Warmer Climate

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