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Summary of	ecoAIR 1-9 PRO	Reg. No.	011-1W0469	
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	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	ecoAIR 1-9 PRO			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R290			
Mass of Refrigerant	0.85 kg			
Certification Date	03.06.2021			
Testing basis	HP KEYMARK certification scheme rules rev. 8			



## Model: ecoAIR 1-9 PRO

Configure model			
Model name ecoAIR 1-9 PRO			
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		

#### Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	0 dB(A)	0 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	180 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	4.57	3.63
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.32 kW	4.40 kW

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COP Tj = -7°C	3.27	2.35
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.18 kW	3.41 kW
COP Tj = +2°C	4.49	3.58
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.07 kW	3.85 kW
COP Tj = +7°C	5.87	4.81
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.11 kW	4.79 kW
COP Tj = 12°C	6.96	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	5.03 kW	4.40 kW
COP Tj = Tbiv	3.01	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	4.52 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	0 W	0 W
РТО	9 W	9 W
PSB	8 W	8 W
РСК	9 W	9 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.48 kW
Annual energy consumption Qhe	2258 kWh	2844 kWh

#### Warmer Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	0 dB(A)	0 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	e Medium temperature
η <sub>s</sub>	218 %	171 %
Prated	6.50 kW	6.00 kW
SCOP	5.53	4.35
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.47 kW	5.96 kW
COP Tj = +2°C	3.39	2.49
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.12 kW	3.92 kW

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		KK Ualabase on 15 juli 202.
COP Tj = +7°C	5.38	3.88
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.92 kW	4.59 kW
COP Tj = 12°C	6.66	5.67
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	6.47 kW	5.96 kW
COP Tj = Tbiv	3.39	2.49
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.47 kW	5.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.39	2.49
WTOL	70 °C	70 °C
Poff	0 W	0 W
РТО	9 W	9 W
PSB	8 W	8 W
РСК	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1570 kWh	1844 kWh

### Colder 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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	148 %	125 %
Prated	4.50 kW	4.50 kW
SCOP	3.78	3.20
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	2.75 kW	2.48 kW
COP Tj = -7°C	3.80	2.88
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.12 kW	3.42 kW
COP Tj = +2°C	4.80	4.07
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.18 kW	4.06 kW
COP Tj = +7°C	6.13	5.26
Cdh Tj = +7 °C	0.990	0.990
Cdh IJ = $+7$ °C	0.990	0.990

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,	RK database on 15 juli 202
2.26 kW	4.81 kW
5.29	6.38
0.980	0.990
3.64 kW	3.71 kW
2.92	2.24
3.64 kW	3.71 kW
2.92	2.24
70 °C	70 °C
0 W	0 W
9 W	9 W
8 W	8 W
9 W	9 W
Electricity	Electricity
0.72 kW	0.77 kW
2936 kWh	3472 kWh
3.64	3.71
2.92	2.24
0.990	0.990
	5.29   0.980   3.64 kW   2.92   3.64 kW   2.92   70 °C   0 W   9 W   8 W   9 W   Electricity   0.72 kW   2936 kWh   3.64

#### Heating

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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	4.20 kW	4.10 kW	
El input	0.84 kW	1.30 kW	
СОР	4.98	3.15	

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