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Summary of	ecoAIR 1-9 PRO	Reg. No.	011-1W0469	
Certificate Holder		<u> </u>		
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	0.85 kg		
Certification Date	03.06.2021	03.06.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 8			



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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		
180 %	142 %		
5.00 kW	5.00 kW		
4.57	3.63		
-10 °C	-7 °C		
-10 °C	-10 °C		
4.32 kW	4.40 kW		
	Low temperature 180 % 5.00 kW 4.57 -10 °C -10 °C		

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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 = $+7^{\circ}$ 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
PCK	9 W	9 W

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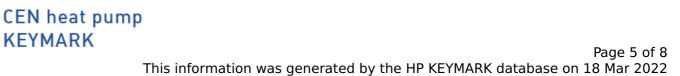
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	0.00 kW	0.48 kW	

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	Medium temperature	
η_{s}	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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$COP Tj = +7^{\circ}C$	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
PTO	9 W	9 W
PSB	8 W	8 W
PCK	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	
η_{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	

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Pdh Tj = 12°C	2.26 kW	4.81 kW
COP Tj = 12°C	5.29	6.38
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	3.64 kW	3.71 kW
COP Tj = Tbiv	2.92	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.64 kW	3.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.92	2.24
WTOL	70 °C	70 °C
Poff	o w	o w
PTO	9 W	9 W
PSB	8 W	8 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.72 kW	0.77 kW
Annual energy consumption Qhe	2936 kWh	3472 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.64	3.71
COP Tj = -15°C (if TOL $<$ -20°C)	2.92	2.24
Cdh Tj = -15 °C	0.990	0.990

Heating



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EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Shutting on the heat transfer medium now	passeu	
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		