

This information was downloaded from the HP KEYMARK database on 3 Dec 2020

| | | | |
|----------------------------|---|----------|------------|
| Summary of | ecoAIR 1-7 PRO | Reg. No. | 011-1W0427 |
| 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 1-7 PRO | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R290 | | |
| Mass Of Refrigerant | 0.75 kg | | |
| Certification Date | 17.11.2020 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 7 | | |

Model: ECOAIR 1-7 PRO

General Data

| | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 175 % | 135 % |
| Prated | 4.10 kW | 4.00 kW |
| SCOP | 4.45 | 3.45 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.69 kW | 3.47 kW |
| COP Tj = -7°C | 2.96 | 2.21 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 2.26 kW | 2.18 kW |
| COP Tj = +2°C | 4.63 | 3.46 |
| Cdh | 0.98 | 0.99 |

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|--|-------------|-------------|
| Pdh Tj = +7°C | 1.50 kW | 1.37 kW |
| COP Tj = +7°C | 5.61 | 4.46 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = 12°C | 1.34 kW | 1.45 kW |
| COP Tj = 12°C | 5.79 | 5.57 |
| Cdh | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 3.69 kW | 3.47 kW |
| COP Tj = Tbiv | 2.96 | 2.21 |
| Pdh Tj = TOL | 3.63 kW | 3.34 kW |
| COP Tj = TOL | 2.83 | 2.07 |
| WTOL | 75 °C | 75 °C |
| Poff | 0 W | 0 W |
| PTO | 10 W | 10 W |
| PSB | 8 W | 8 W |
| PCK | 10 W | 10 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.47 kW | 0.66 kW |
| Annual energy consumption Qhe | 1902 kWh | 2396 kWh |

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 | 3.30 kW | 2.80 kW |
| El input | 0.64 kW | 0.85 kW |
| COP | 5.20 | 3.30 |
| Indoor water flow rate | 0.53 m ³ /h | 0.27 m ³ /h |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 159 % |

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| | | |
|---------------|---------|---------|
| Prated | 4.00 kW | 3.60 kW |
| SCOP | 5.11 | 4.04 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 4.02 kW | 3.63 kW |
| COP Tj = +2°C | 3.00 | 2.11 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 2.54 kW | 2.41 kW |
| COP Tj = +7°C | 6.15 | 3.79 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 1.23 kW | 1.51 kW |
| COP Tj = 12°C | 5.26 | 5.26 |
| Cdh | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 4.02 kW | 3.63 kW |
| COP Tj = Tbiv | 3.00 | 2.11 |
| Pdh Tj = TOL | 4.02 kW | 3.63 kW |
| COP Tj = TOL | 3.00 | 2.11 |
| WTOL | 75 °C | 75 °C |
| Poff | 0 W | 0 W |
| PTO | 10 W | 10 W |
| PSB | 8 W | 8 W |

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| | | |
|--|-------------|-------------|
| PCK | 10 W | 10 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1045 kWh | 1191 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 146 % | 120 % |
| Prated | 4.50 kW | 4.30 kW |
| SCOP | 3.72 | 3.07 |
| Tbiv | -12 °C | -12 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 2.73 kW | 2.64 kW |
| COP Tj = -7°C | 3.69 | 2.79 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 1.64 kW | 1.57 kW |

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| | | |
|--|-------------|-------------|
| COP Tj = +2°C | 4.95 | 3.87 |
| Cdh | 0.97 | 0.98 |
| Pdh Tj = +7°C | 1.10 kW | 1.27 kW |
| COP Tj = +7°C | 4.73 | 4.64 |
| Cdh | 0.96 | 0.96 |
| Pdh Tj = 12°C | 1.25 kW | 1.20 kW |
| COP Tj = 12°C | 5.47 | 5.02 |
| Cdh | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 3.29 kW | 3.07 kW |
| COP Tj = Tbiv | 3.17 | 2.47 |
| Pdh Tj = TOL | 3.32 kW | 3.09 kW |
| COP Tj = TOL | 3.09 | 2.40 |
| WTOL | 75 °C | 75 °C |
| Poff | 0 W | 0 W |
| PTO | 10 W | 10 W |
| PSB | 8 W | 8 W |
| PCK | 10 W | 10 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.32 kW | 1.32 kW |
| Annual energy consumption Qhe | 2983 kWh | 3458 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 3.32 | 3.09 |

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|-------------------------------|------|------|
| COP Tj = -15°C (if TOL<-20°C) | 3.09 | 2.40 |
| Cdh | 1.00 | 0.99 |