Login

| Summary of | ecoAIR 3-18 PRO | Reg. No. | 011-1W0442 |
|---|---|---|---|
| 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 3-18 PRO | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R290 | | |
| Mass of Refrigerant | 1.37 kg | | |
| Certification Date | 22.11.2021 | | |
| Testing basis | Europäisches Zertifizierungsprogramm Wärmepumpen KEYMARK Version8 (Stand: 2020-09) | | |

# Model: ecoAIR T 3-18 PRO

| Configure model | |
|---|---|
| Model name | ecoAIR T 3-18 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 | 3x400V 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 | 7.53 kW | 8.48 kW |
| El input | 1.50 kW | 2.53 kW |
| COP | 5.02 | 3.35 |

## 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 |
|---|---|---|
| $\eta_s$ | 175 % | 138 % |
| Prated | 10.60 kW | 10.50 kW |
| SCOP | 4.46 | 3.53 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.44 kW | 9.26 kW |
| COP Tj = -7°C | 3.30 | 2.40 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 5.76 kW | 5.63 kW |
| COP Tj = +2°C | 3.97 | 3.13 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 6.56 kW | 6.18 kW |
| COP Tj = +7°C | 6.27 | 5.18 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.25 kW | 6.14 kW |
| COP Tj = 12°C | 7.00 | 6.65 |
| Cdh Tj = +12 °C | 0.980 | 0.990 |
| Pdh Tj = Tbiv | 10.55 kW | 10.47 kW |
| COP Tj = Tbiv | 3.14 | 2.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.55 kW | 10.47 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.14 | 2.22 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 0.05 kW | 0.03 kW |
| Annual energy consumption Qhe | 4914 kWh | 6144 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 |
|---|---|---|
| $\eta_s$ | 236 % | 188 % |
| Prated | 11.70 kW | 11.00 kW |
| SCOP | 5.98 | 4.77 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.69 kW | 10.96 kW |
| COP Tj = +2°C | 3.04 | 2.19 |
| Cdh Tj = +2 °C | 1.000 | 1.000 |
| Pdh Tj = +7°C | 8.22 kW | 7.47 kW |
| COP Tj = +7°C | 5.70 | 4.25 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 6.99 kW | 7.27 kW |
| COP Tj = 12°C | 7.27 | 6.27 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 11.69 kW | 10.96 kW |
| COP Tj = Tbiv | 3.04 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.69 kW | 10.96 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.04 | 2.19 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 0.05 kW | 0.05 kW |
| Annual energy consumption Qhe | 2613 kWh | 3079 kWh |

## Colder 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** |
|---|---|---|
| $\eta_s$ | 145 % | 124 % |
| Prated | 10.00 kW | 10.00 kW |
| SCOP | 3.70 | 3.16 |
| Tbiv | -15 °C | -15 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 5.95 kW | 6.04 kW |
| COP Tj = -7°C | 3.73 | 3.16 |
| Cdh Tj = -7 °C | 0.990 | 1.000 |
| Pdh Tj = +2°C | 4.47 kW | 4.64 kW |
| COP Tj = +2°C | 4.26 | 3.47 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 7.64 kW | 6.48 kW |
| COP Tj = +7°C | 6.50 | 5.65 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 4.80 kW | 6.46 kW |
| COP Tj = 12°C | 7.22 | 6.96 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 8.16 kW | 8.15 kW |
| COP Tj = Tbiv | 3.11 | 2.40 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.16 kW | 8.15 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.40 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 10.00 kW | 10.00 kW |
| Annual energy consumption Qhe | 6661 kWh | 7795 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | | |
| COP Tj = -15°C (if TOL<-20°C) | | |
| Cdh Tj = -15 °C | | |

# Model: ecoAIR 3-18 PRO

| Configure model | |
|---|---|
| Model name | ecoAIR 3-18 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 |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 7.53 kW | 8.48 kW |
| El input | 1.50 kW | 2.53 kW |
| COP | 5.02 | 3.35 |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

## 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 |
|---|---|---|
| $\eta_s$ | 175 % | 138 % |
| Prated | 10.60 kW | 10.50 kW |
| SCOP | 4.46 | 3.53 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.44 kW | 9.26 kW |
| COP Tj = -7°C | 3.30 | 2.40 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 5.76 kW | 5.63 kW |
| COP Tj = +2°C | 3.97 | 3.13 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 6.56 kW | 6.18 kW |
| COP Tj = +7°C | 6.27 | 5.18 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.25 kW | 6.14 kW |
| COP Tj = 12°C | 7.00 | 6.65 |
| Cdh Tj = +12 °C | 0.980 | 0.990 |
| Pdh Tj = Tbiv | 10.55 kW | 10.47 kW |
| COP Tj = Tbiv | 3.14 | 2.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.55 kW | 10.47 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.14 | 2.22 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 0.05 kW | 0.03 kW |
| Annual energy consumption Qhe | 4914 kWh | 6144 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 |
|---|---|---|
| $\eta_s$ | 236 % | 188 % |
| Prated | 11.70 kW | 11.00 kW |
| SCOP | 5.98 | 4.77 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.69 kW | 10.96 kW |
| COP Tj = +2°C | 3.04 | 2.19 |
| Cdh Tj = +2 °C | 1.000 | 1.000 |
| Pdh Tj = +7°C | 8.22 kW | 7.47 kW |
| COP Tj = +7°C | 5.70 | 4.25 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 6.99 kW | 7.27 kW |
| COP Tj = 12°C | 7.27 | 6.27 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 11.69 kW | 10.96 kW |
| COP Tj = Tbiv | 3.04 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.69 kW | 10.96 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.04 | 2.19 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 0.01 kW | 0.04 kW |
| Annual energy consumption Qhe | 2613 kWh | 3079 kWh |

## Colder 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) |

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|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 145 % | 124 % |
| Prated | 10.00 kW | 10.00 kW |
| SCOP | 3.70 | 3.16 |
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| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 5.95 kW | 6.04 kW |
| COP Tj = -7°C | 3.73 | 3.16 |
| Cdh Tj = -7 °C | 0.990 | 1.000 |
| Pdh Tj = +2°C | 4.47 kW | 4.64 kW |
| COP Tj = +2°C | 4.26 | 3.47 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 7.64 kW | 6.48 kW |
| COP Tj = +7°C | 6.50 | 5.65 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 4.80 kW | 6.46 kW |
| COP Tj = 12°C | 7.22 | 6.96 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 8.16 kW | 8.15 kW |
| COP Tj = Tbiv | 3.11 | 2.40 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.16 kW | 8.15 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.40 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| 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 | 10.00 kW | 10.00 kW |
| Annual energy consumption Qhe | 6661 kWh | 7795 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | | |
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| Cdh Tj = -15 °C | | |