Login

| Summary of | ECOGEO B/C 1 5-22kW | Reg. No. | 011-1W0328 |
|---|---|---|---|
| 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 | ECOGEO B/C 1 5-22kW | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.4 kg | | |
| Certification Date | 28.05.2019 | | |

# Model: ECOGEO C1 T 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO C1 T 5-22kW |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |
| Off-peak product | Yes |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Colder Climate

## EN 16147

| | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

# Model: ECOGEO C2 T 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO C2 T 5-22kW |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |
| Off-peak product | Yes |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

# Model: ECOGEO B1 T 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO B1 T 5-22kW |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

# Model: ECOGEO B2 T 1 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO B2 T 1 5-22kW |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

# Model: ECOGEO C1 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO C1 5-22kW |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |
| Off-peak product | Yes |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

# Model: ECOGEO C2 1 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO C2 1 5-22kW |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |
| Off-peak product | Yes |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 100 % |
| COP | 1.68 |
| Heating up time | 00:56:51 h:min |
| Standby power input | 162.8 W |
| Reference hot water temperature | 57.5 °C |
| Mixed water at 40°C | 233 l |

# Model: ECOGEO B1 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO B1 5-22kW |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

# Model: ECOGEO B2 5-22kW

| Configure model | |
|---|---|
| Model name | ECOGEO B2 5-22kW |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 7.91 kW |
| El input | 1.76 kW | 2.62 kW |
| COP | 4.88 | 3.02 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 188 % | 150 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.71 | 3.75 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 20.07 kW | 17.41 kW |
| COP Tj = -7°C | 3.27 | 2.67 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 12.97 kW | 10.69 kW |
| COP Tj = +2°C | 4.86 | 3.60 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.50 kW | 7.08 kW |
| COP Tj = +7°C | 5.52 | 4.99 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.79 kW | 3.76 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.19 | 4.38 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 10084 kWh | 10840 kWh |

## Warmer Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 148 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.68 | 3.70 |

| | | |
|---|---|---|
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 24.76 kW | 19.09 kW |
| COP Tj = +2°C | 3.77 | 2.90 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 14.91 kW | 12.89 kW |
| COP Tj = +7°C | 4.20 | 3.21 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.56 kW | 5.72 kW |
| COP Tj = 12°C | 5.33 | 4.36 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 24.76 kW | 19.09 kW |
| COP Tj = Tbiv | 3.77 | 2.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6572 kWh | 7117 kWh |

## Colder Climate

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 193 % | 129 % |
| Prated | 23.00 kW | 20.00 kW |
| SCOP | 4.82 | 3.22 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 13.83 kW | 11.90 kW |
| COP Tj = -7°C | 4.39 | 3.71 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.55 kW | 7.38 kW |
| COP Tj = +2°C | 5.18 | 4.66 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.62 kW | 4.80 kW |
| COP Tj = +7°C | 5.38 | 5.24 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.57 kW | 3.55 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 4.94 | 5.55 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 15.54 kW | 13.79 kW |
| COP Tj = Tbiv | 4.96 | 3.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 24.76 kW | 19.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.77 | 2.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11764 kWh | 15103 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 18.78 | 16.54 |
| COP Tj = -15°C (if TOL<-20°C) | 4.06 | 3.09 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |