

| Summary of | ECOGEO B/C 3 3-12kW | Reg. No. | 011-1W0330 |
|----------------------------|---|----------|------------|
| 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 | AIT Austrian Institute of Technology GmbH | | |
| Subtype title | ECOGEO B/C 3 3-12kW | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410a | | |
| Mass Of Refrigerant | 1 kg | | |
| Certification Date | 28.05.2019 | | |



Model: ECOGEO C3 T 3-12kW

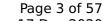
| General Data | | |
|------------------|-------------|--|
| Power supply | 3x400V 50Hz | |
| Off-peak product | Yes | |

Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

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

| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





| EN 14825 | | |
|----------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η _s | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |

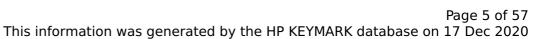




| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |





| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = $+7^{\circ}$ C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 4191 kWh | 5340 kWh |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 |
| COP Tj = -15 °C (if TOL< -20 °C) | 4.16 | 3.14 |
| Cdh | 0.99 | 0.99 |

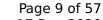
Domestic Hot Water (DHW)



| EN 16147 | | |
|---------------------------------|----------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|----------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |





| EN 16147 | | |
|---------------------------------|----------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |



Model: ECOGEO C4 T 3-12kW

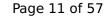
| General Data | | |
|------------------|-------------|--|
| Power supply | 3x400V 50Hz | |
| Off-peak product | Yes | |

Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

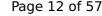
| EN 14511-4 | | |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Starting and operating test | passed | |

| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |





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| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 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 | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |



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This information was generated by the HP KEYMARK database on 17 Dec 2020

| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = $+7^{\circ}$ C | 10.48 kW | 9.98 kW |
| $COPTj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| РСК | 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 | 4191 kWh | 5340 kWh |
| | | · |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



| This morniation was generated by the military into database on 17 Dec 2021 | | | |
|--|-------------|-------------|--|
| Pdh Tj = TOL | 15.16 kW | 13.95 kW | |
| COP Tj = TOL | 3.63 | 2.56 | |
| WTOL | 60 °C | 60 °C | |
| Poff | 11 W | 11 W | |
| РТО | 11 W | 11 W | |
| PSB | 11 W | 11 W | |
| PCK | o w | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW | |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh | |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 | |
| COP Tj = -15°C (if TOL $<$ -20°C) | 4.16 | 3.14 | |
| Cdh | 0.99 | 0.99 | |

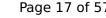
Domestic Hot Water (DHW)



| EN 16147 | | | |
|---------------------------------|----------------|--|--|
| | | | |
| Declared load profile | L | | |
| Efficiency ηDHW | 81 % | | |
| СОР | 2.00 | | |
| Heating up time | 01:18:30 h:min | | |
| Standby power input | 102.2 W | | |
| Reference hot water temperature | 58.1 °C | | |
| Mixed water at 40°C | 233 I | | |

Warmer Climate

| EN 16147 | | | |
|---------------------------------|----------------|--|--|
| | | | |
| Declared load profile | L | | |
| Efficiency ηDHW | 81 % | | |
| СОР | 2.00 | | |
| Heating up time | 01:18:30 h:min | | |
| Standby power input | 102.2 W | | |
| Reference hot water temperature | 58.1 °C | | |
| Mixed water at 40°C | 233 I | | |





 $$\operatorname{\textit{Page}}\ 17$$ of 57 This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | | | |
|---------------------------------|----------------|--|--|
| Declared load profile | L | | |
| Efficiency ηDHW | 81 % | | |
| СОР | 2.00 | | |
| Heating up time | 01:18:30 h:min | | |
| Standby power input | 102.2 W | | |
| Reference hot water temperature | 58.1 °C | | |
| Mixed water at 40°C | 233 I | | |



Model: ECOGEO B3 T 3-12kW

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

Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

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

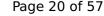
| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |



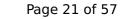


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| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| Low temperature | |
|-----------------|--------------------------------------|
| - | Medium temperature |
| 191 % | 148 % |
| 15.00 kW | 15.00 kW |
| 4.78 | 3.70 |
| 2 °C | 2 °C |
| 2 °C | 2 °C |
| 15.16 kW | 13.36 kW |
| 3.63 | 2.58 |
| | 15.00 kW 4.78 2 °C 2 °C 15.16 kW |





| | | | | | | _ | |
|------|-------------|--------------|-------------|----------------|-------------|-----------|-----|
| This | information | was generate | d by the HI | KEYMARK | database on | 17 Dec 20 | 020 |

| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = +7°C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 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 | 4191 kWh | 5340 kWh |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |
| | 1 | |



 $$\operatorname{\textit{Page}}\xspace$ 23 of 57 This information was generated by the HP KEYMARK database on 17 Dec 2020

| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 |
| COP Tj = -15°C (if TOL<-20°C) | 4.16 | 3.14 |
| Cdh | 0.99 | 0.99 |



Model: ECOGEO B4 T 3-12kW

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

Heating

| EN 14511-2 | | |
|------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.30 kW | 6.65 kW |
| El input | 1.60 kW | 2.28 kW |
| СОР | 4.55 | 2.91 |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h |

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

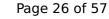
| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |





| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |





| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = +7°C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 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 | 4191 kWh | 5340 kWh |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



Cdh

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0.99

Pdh Tj = TOL15.16 kW 13.95 kW COPTj = TOL3.63 2.56 60 °C 60 °C WTOL Poff 11 W 11 W PTO 11 W 11 W **PSB** 11 W 11 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW 7515 kWh 11094 kWh Annual energy consumption Qhe 13.30 12.58 Pdh Tj = -15°C (if TOL<-20°C) COP Tj = -15°C (if TOL<-20°C) 4.16 3.14

0.99



Model: ECOGEO C3 3-12kW

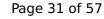
| General Data | | |
|------------------|-------------|--|
| Power supply | 1x230V 50Hz | |
| Off-peak product | Yes | |

Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

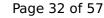
| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





| EN 14825 | | |
|----------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| n _s | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |





| TI' ' C | | | |
|--|--------------------|-------------------------------|---------------------------|
| This information was generated by the HP KEYMARK database on 17 Dec 2020 | This information w | as generated by the HP KEYMAR | K database on 17 Dec 2020 |

| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 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 | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |



| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = $+7^{\circ}$ C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 4191 kWh | 5340 kWh |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



| | , , , , , , , , , , , , , , , , , , , | |
|--|---------------------------------------|-------------|
| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 |
| COP Tj = -15°C (if TOL<-20°C) | 4.16 | 3.14 |
| Cdh | 0.99 | 0.99 |

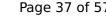
Domestic Hot Water (DHW)



| EN 16147 | | |
|---------------------------------|----------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|----------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |





$$\operatorname{\textit{Page}}\xspace$ 37 of 57 This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | | |
|---------------------------------|----------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |



Model: ECOGEO C4 3-12kW

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

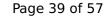
Heating

| EN 14511-2 | | |
|------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.30 kW | 6.65 kW |
| El input | 1.60 kW | 2.28 kW |
| СОР | 4.55 | 2.91 |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h |

| 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 | 54 dB(A) | 54 dB(A) |





| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |

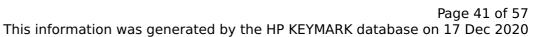




| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |





| | 1 | |
|--|-------------|-------------|
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.48 kW | 9.98 kW |
| COP Tj = +7°C | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 4191 kWh | 5340 kWh |
| | 1 | · |

Colder Climate





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



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This information was generated by the HP KEYMARK database on 17 Dec 2020

| V 13.95 kW 2.56 |
|-----------------|
| 2.56 |
| |
| 60 °C |
| 11 W |
| 11 W |
| 11 W |
| o w |
| Electricity |
| 6.00 kW |
| /h 11094 kWh |
| 12.58 |
| 3.14 |
| 0.99 |
| |

Domestic Hot Water (DHW)

Average Climate



| EN 16147 | | |
|---------------------------------|----------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|----------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |

Colder Climate





| EN 16147 | | |
|---------------------------------|----------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 81 % | |
| СОР | 2.00 | |
| Heating up time | 01:18:30 h:min | |
| Standby power input | 102.2 W | |
| Reference hot water temperature | 58.1 °C | |
| Mixed water at 40°C | 233 I | |



Model: ECOGEO B3 3-12kW

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

Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

| 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 | 54 dB(A) | 54 dB(A) |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |





| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |





| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = +7°C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 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 | 4191 kWh | 5340 kWh |

Colder Climate





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 |
| COP Tj = -15°C (if TOL<-20°C) | 4.16 | 3.14 |
| Cdh | 0.99 | 0.99 |



Model: ECOGEO B4 3-12kW

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

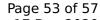
Heating

| EN 14511-2 | | | |
|------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.30 kW | 6.65 kW | |
| El input | 1.60 kW | 2.28 kW | |
| СОР | 4.55 | 2.91 | |
| Indoor water flow rate | 1.23 m³/h | 0.72 m³/h | |

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

Average Climate

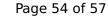
| EN 12102-1 | | |
|--------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 54 dB(A) | 54 dB(A) |





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 198 % | 146 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.95 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.42 kW | 11.87 kW |
| COP Tj = -7°C | 4.05 | 2.81 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 8.47 kW | 8.48 kW |
| COP Tj = +2°C | 5.01 | 3.62 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.34 kW | 5.56 kW |
| COP Tj = +7°C | 5.61 | 4.29 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.45 kW | 2.47 kW |
| COP Tj = 12°C | 5.18 | 4.38 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 15.16 kW | 13.95 kW |
| COP Tj = Tbiv | 3.63 | 2.56 |





| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 6266 kWh | 8259 kWh |

Warmer Climate

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 191 % | 148 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.78 | 3.70 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.16 kW | 13.36 kW |
| COP Tj = +2°C | 3.63 | 2.58 |





| Cdh | 0.99 | 0.99 |
|--|-------------|-------------|
| Pdh Tj = +7°C | 10.48 kW | 9.98 kW |
| $COP Tj = +7^{\circ}C$ | 4.38 | 3.24 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 4.67 kW | 4.61 kW |
| COP Tj = 12°C | 5.50 | 4.48 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 15.16 kW | 13.36 kW |
| COP Tj = Tbiv | 3.63 | 2.58 |
| Pdh Tj = TOL | 15.16 kW | 13.36 kW |
| COP Tj = TOL | 3.63 | 2.58 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 4191 kWh | 5340 kWh |

Colder Climate





EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_{s} | 197 % | 130 % |
| Prated | 15.00 kW | 15.00 kW |
| SCOP | 4.92 | 3.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.89 kW | 9.46 kW |
| COP Tj = -7°C | 4.56 | 3.73 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 6.04 kW | 5.90 kW |
| COP Tj = +2°C | 5.34 | 4.78 |
| Cdh | 0.98 | 0.99 |
| Pdh Tj = +7°C | 3.86 kW | 3.50 kW |
| COP Tj = +7°C | 5.54 | 5.64 |
| Cdh | 0.98 | 0.98 |
| Pdh Tj = 12°C | 1.97 kW | 1.99 kW |
| COP Tj = 12°C | 4.64 | 5.99 |
| Cdh | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 9.67 kW | 9.71 kW |
| COP Tj = Tbiv | 4.75 | 3.40 |



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| | raye | 2 3 / 01 3 / |
|----------------------------------|----------------------------------|--------------|
| This information was generated b | by the HP KEYMARK database on 17 | Dec 2020 |

| Pdh Tj = TOL | 15.16 kW | 13.95 kW |
|--|-------------|-------------|
| COP Tj = TOL | 3.63 | 2.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| РТО | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 7515 kWh | 11094 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 13.30 | 12.58 |
| COP Tj = -15°C (if TOL<-20°C) | 4.16 | 3.14 |
| Cdh | 0.99 | 0.99 |