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

| Summary of | Vitocal 2xx-G B06 | Reg. No. | 011-1W0285 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Viessmann Wärmepumpen GmbH | | |
| Address | Viessmannstr. 1 | Zip | 35107 |
| City | Allendorf/Eder | Country | Germany |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Name of testing laboratory | Heat Pump Test Center WPZ | | |
| Subtype title | Vitocal 2xx-G B06 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410a | | |
| Mass Of Refrigerant | 1.4 kg | | |
| Certification Date | 11.07.2019 | | |

# Model: VITOCAL 200-G BWC 201.B06

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 5.73 kW | 5.11 kW |
| El input | 1.25 kW | 1.94 kW |
| COP | 4.60 | 1.63 |
| Indoor water flow rate | 1.13 m³/h | 0.61 m³/h |

| 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 | 40 dB(A) | 40 dB(A) |

## EN 14825

| | | Low temperature | Medium temperature |
|---|---|---|---|
| Pdesignh | 6.59 kW | | |
| $\eta_s$ | 186 % | 134 % | |
| Prated | 6.59 kW | 5.94 kW | |
| SCOP | 4.86 | 3.56 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 5.80 kW | 5.23 kW | |
| COP Tj = -7°C | 4.61 | 3.01 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 5.84 kW | 5.43 kW | |
| COP Tj = +2°C | 4.85 | 3.54 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.93 kW | 5.59 kW | |
| COP Tj = +7°C | 5.18 | 3.96 | |
| Cdh | 0.99 | 0.99 | |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 5.98 kW | 5.70 kW |
| COP Tj = 12°C | 5.45 | 4.41 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.80 kW | 5.23 kW |
| COP Tj = Tbiv | 4.61 | 3.01 |
| Pdh Tj = TOL | 5.80 kW | 5.21 kW |
| COP Tj = TOL | 4.55 | 2.85 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.80 kW | 0.73 kW |
| Backup Heater | 0 kW | |
| Annual energy consumption Qhe | 2802 kWh | 3452 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 189 % | 141 % |
| Prated | 5.70 kW | 5.19 kW |
| SCOP | 4.92 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.70 kW | 5.20 kW |
| COP Tj = +2°C | 5.18 | 2.80 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.84 kW | 5.29 kW |
| COP Tj = +7°C | 4.75 | 3.20 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.94 kW | 5.61 kW |
| COP Tj = 12°C | 5.18 | 4.06 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.70 kW | 5.19 kW |
| COP Tj = Tbiv | 5.18 | 2.83 |
| Pdh Tj = TOL | 5.70 kW | 5.19 kW |
| COP Tj = TOL | 5.20 | 2.83 |
| Cdh | 0.99 | 0.99 |

| | | |
|---|---|---|
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1574 kWh | 1857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 184 % | 133 % |
| Prated | 9.63 kW | 8.97 kW |
| SCOP | 4.80 | 3.52 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 5.88 kW | 5.38 kW |
| COP Tj = -7°C | 5.24 | 3.52 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 5.97 kW | 5.60 kW |
| COP Tj = +2°C | 5.53 | 4.04 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.99 kW | 5.71 kW |
| COP Tj = +7°C | 5.73 | 4.48 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.98 kW | 5.78 kW |
| COP Tj = 12°C | 5.76 | 4.82 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.88 kW | 5.38 kW |
| COP Tj = Tbiv | 5.24 | 3.52 |
| Pdh Tj = TOL | 5.81 kW | 5.20 kW |
| COP Tj = TOL | 4.80 | 2.92 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |

| | | |
|---|---|---|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 3.82 kW | 3.47 kW |
| Annual energy consumption Qhe | 4939 kWh | 6069 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.88 | 5.29 |
| COP Tj = -15°C (if TOL<-20°C) | 5.11 | 2.92 |
| Cdh | 0.99 | 0.99 |

# Model: VITOCAL 200-G BWC 201.B06 SC

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 5.73 kW | 5.11 kW |
| El input | 1.25 kW | 1.94 kW |
| COP | 4.60 | 1.63 |
| Indoor water flow rate | 1.13 m³/h | 0.61 m³/h |

| 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 | 40 dB(A) | 40 dB(A) |

## EN 14825

| | | Low temperature | Medium temperature |
|---|---|---|---|
| Pdesignh | 6.59 kW | | |
| $\eta_s$ | 186 % | 134 % | |
| Prated | 6.59 kW | 5.94 kW | |
| SCOP | 4.86 | 3.56 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 5.80 kW | 5.23 kW | |
| COP Tj = -7°C | 4.61 | 3.01 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 5.84 kW | 5.43 kW | |
| COP Tj = +2°C | 4.85 | 3.54 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.93 kW | 5.59 kW | |
| COP Tj = +7°C | 5.18 | 3.96 | |
| Cdh | 0.99 | 0.99 | |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 5.98 kW | 5.70 kW |
| COP Tj = 12°C | 5.45 | 4.41 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.80 kW | 5.23 kW |
| COP Tj = Tbiv | 4.61 | 3.01 |
| Pdh Tj = TOL | 5.80 kW | 5.21 kW |
| COP Tj = TOL | 4.55 | 2.85 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.80 kW | 0.73 kW |
| Backup Heater | 0 kW | |
| Annual energy consumption Qhe | 2802 kWh | 3452 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 189 % | 141 % |
| Prated | 5.70 kW | 5.19 kW |
| SCOP | 4.92 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.70 kW | 5.20 kW |
| COP Tj = +2°C | 5.18 | 2.80 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.84 kW | 5.29 kW |
| COP Tj = +7°C | 4.75 | 3.20 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.94 kW | 5.61 kW |
| COP Tj = 12°C | 5.18 | 4.06 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.70 kW | 5.19 kW |
| COP Tj = Tbiv | 5.18 | 2.83 |
| Pdh Tj = TOL | 5.70 kW | 5.19 kW |
| COP Tj = TOL | 5.20 | 2.83 |
| Cdh | 0.99 | 0.99 |

| | | |
|---|---|---|
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1574 kWh | 1857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 184 % | 133 % |
| Prated | 9.63 kW | 8.97 kW |
| SCOP | 4.80 | 3.52 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 5.88 kW | 5.38 kW |
| COP Tj = -7°C | 5.24 | 3.52 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 5.97 kW | 5.60 kW |
| COP Tj = +2°C | 5.53 | 4.04 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.99 kW | 5.71 kW |
| COP Tj = +7°C | 5.73 | 4.48 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.98 kW | 5.78 kW |
| COP Tj = 12°C | 5.76 | 4.82 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.88 kW | 5.38 kW |
| COP Tj = Tbiv | 5.24 | 3.52 |
| Pdh Tj = TOL | 5.81 kW | 5.20 kW |
| COP Tj = TOL | 4.80 | 2.92 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |

| | | |
|---|---|---|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 3.82 kW | 3.47 kW |
| Annual energy consumption Qhe | 4939 kWh | 6069 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.88 | 5.29 |
| COP Tj = -15°C (if TOL<-20°C) | 5.11 | 2.92 |
| Cdh | 0.99 | 0.99 |

# Model: VITOCAL 222-G BWT 221.B06

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 5.73 kW | 5.11 kW |
| El input | 1.25 kW | 1.94 kW |
| COP | 4.60 | 1.63 |
| Indoor water flow rate | 1.13 m³/h | 0.61 m³/h |

| 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 | 40 dB(A) | 40 dB(A) |

## EN 14825

| | | Low temperature | Medium temperature |
|---|---|---|---|
| Pdesignh | 6.59 kW | | |
| $\eta_s$ | 186 % | 134 % | |
| Prated | 6.59 kW | 5.94 kW | |
| SCOP | 4.86 | 3.56 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 5.80 kW | 5.23 kW | |
| COP Tj = -7°C | 4.61 | 3.01 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 5.84 kW | 5.43 kW | |
| COP Tj = +2°C | 4.85 | 3.54 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.93 kW | 5.59 kW | |
| COP Tj = +7°C | 5.18 | 3.96 | |
| Cdh | 0.99 | 0.99 | |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 5.98 kW | 5.70 kW |
| COP Tj = 12°C | 5.45 | 4.41 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.80 kW | 5.23 kW |
| COP Tj = Tbiv | 4.61 | 3.01 |
| Pdh Tj = TOL | 5.80 kW | 5.21 kW |
| COP Tj = TOL | 4.55 | 2.85 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.80 kW | 0.73 kW |
| Backup Heater | 0 kW | |
| Annual energy consumption Qhe | 2802 kWh | 3452 kWh |

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 189 % | 141 % |
| Prated | 5.70 kW | 5.19 kW |
| SCOP | 4.92 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.70 kW | 5.20 kW |
| COP Tj = +2°C | 5.18 | 2.80 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.84 kW | 5.29 kW |
| COP Tj = +7°C | 4.75 | 3.20 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.94 kW | 5.61 kW |
| COP Tj = 12°C | 5.18 | 4.06 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.70 kW | 5.19 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.18 | 2.83 |
| Pdh Tj = TOL | 5.70 kW | 5.19 kW |
| COP Tj = TOL | 5.20 | 2.83 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1574 kWh | 1857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 184 % | 133 % |

| | | |
|---|---|---|
| Prated | 9.63 kW | 8.97 kW |
| SCOP | 4.80 | 3.52 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 5.88 kW | 5.38 kW |
| COP Tj = -7°C | 5.24 | 3.52 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 5.97 kW | 5.60 kW |
| COP Tj = +2°C | 5.53 | 4.04 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.99 kW | 5.71 kW |
| COP Tj = +7°C | 5.73 | 4.48 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.98 kW | 5.78 kW |
| COP Tj = 12°C | 5.76 | 4.82 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.88 kW | 5.38 kW |
| COP Tj = Tbiv | 5.24 | 3.52 |
| Pdh Tj = TOL | 5.81 kW | 5.20 kW |
| COP Tj = TOL | 4.80 | 2.92 |
| Cdh | 0.99 | 0.99 |

| | | |
|---|---|---|
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 3.82 kW | 3.47 kW |
| Annual energy consumption Qhe | 4939 kWh | 6069 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.88 | 5.29 |
| COP Tj = -15°C (if TOL<-20°C) | 5.11 | 2.92 |
| Cdh | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |

# Model: VITOCAL 222-G BWT 221.B06 SC

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 5.73 kW | 5.11 kW |
| El input | 1.25 kW | 1.94 kW |
| COP | 4.60 | 1.63 |
| Indoor water flow rate | 1.13 m³/h | 0.61 m³/h |

| 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 | 40 dB(A) | 40 dB(A) |

## EN 14825

| | | Low temperature | Medium temperature |
|---|---|---|---|
| Pdesignh | 6.59 kW | | |
| $\eta_s$ | 186 % | 134 % | |
| Prated | 6.59 kW | 5.94 kW | |
| SCOP | 4.86 | 3.56 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 5.80 kW | 5.23 kW | |
| COP Tj = -7°C | 4.61 | 3.01 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 5.84 kW | 5.43 kW | |
| COP Tj = +2°C | 4.85 | 3.54 | |
| Cdh | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.93 kW | 5.59 kW | |
| COP Tj = +7°C | 5.18 | 3.96 | |
| Cdh | 0.99 | 0.99 | |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 5.98 kW | 5.70 kW |
| COP Tj = 12°C | 5.45 | 4.41 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.80 kW | 5.23 kW |
| COP Tj = Tbiv | 4.61 | 3.01 |
| Pdh Tj = TOL | 5.80 kW | 5.21 kW |
| COP Tj = TOL | 4.55 | 2.85 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.80 kW | 0.73 kW |
| Backup Heater | 0 kW | |
| Annual energy consumption Qhe | 2802 kWh | 3452 kWh |

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 189 % | 141 % |
| Prated | 5.70 kW | 5.19 kW |
| SCOP | 4.92 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.70 kW | 5.20 kW |
| COP Tj = +2°C | 5.18 | 2.80 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.84 kW | 5.29 kW |
| COP Tj = +7°C | 4.75 | 3.20 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.94 kW | 5.61 kW |
| COP Tj = 12°C | 5.18 | 4.06 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.70 kW | 5.19 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.18 | 2.83 |
| Pdh Tj = TOL | 5.70 kW | 5.19 kW |
| COP Tj = TOL | 5.20 | 2.83 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1574 kWh | 1857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 184 % | 133 % |

| | | |
|---|---|---|
| Prated | 9.63 kW | 8.97 kW |
| SCOP | 4.80 | 3.52 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 5.88 kW | 5.38 kW |
| COP Tj = -7°C | 5.24 | 3.52 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 5.97 kW | 5.60 kW |
| COP Tj = +2°C | 5.53 | 4.04 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.99 kW | 5.71 kW |
| COP Tj = +7°C | 5.73 | 4.48 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.98 kW | 5.78 kW |
| COP Tj = 12°C | 5.76 | 4.82 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.88 kW | 5.38 kW |
| COP Tj = Tbiv | 5.24 | 3.52 |
| Pdh Tj = TOL | 5.81 kW | 5.20 kW |
| COP Tj = TOL | 4.80 | 2.92 |
| Cdh | 0.99 | 0.99 |

| | | |
|---|---|---|
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 3.82 kW | 3.47 kW |
| Annual energy consumption Qhe | 4939 kWh | 6069 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.88 | 5.29 |
| COP Tj = -15°C (if TOL<-20°C) | 5.11 | 2.92 |
| Cdh | 0.99 | 0.99 |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |

## Colder Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 130 % |
| COP | 3.14 |
| Heating up time | 2.10 h:min |
| Standby power input | 63.0 W |
| Reference hot water temperature | 54.1 °C |
| Mixed water at 40°C | 293 l |