Login

| Summary of | Bosch Compress CS3400iAWS 12,14 OR-S | Reg. No. | 011-1W0537 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Bosch Thermotechnik GmbH | | |
| Address | Junkersstraße 20 - 24 | Zip | 73249 |
| City | Wernau | Country | Germany |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Subtype title | Bosch Compress CS3400iAWS 12,14 OR-S | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.2 kg | | |
| Certification Date | 10.06.2022 | | |

# Model: CS3400iAWS 12 ORB-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 12 ORB-S |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 12.12 kW | 9.15 kW |
| El input | 2.98 kW | 3.62 kW |
| COP | 4.07 | 2.53 |

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

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 223 % | 149 % |
| Prated | 11 kW | 11 kW |
| SCOP | 5.65 | 3.81 |
| Tbiv | 2 °C | 3 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 10.8 kW | 9.82 kW |
| COP Tj = +2°C | 2.87 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 7.48 kW | 7.12 kW |
| COP Tj = +7°C | 5.09 | 3.26 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 10.8 kW | 10.45 kW |
| COP Tj = Tbiv | 2.87 | 2.24 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.8 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.87 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0 kW | 1.18 kW |
| Annual energy consumption Qhe | 2599 kWh | 3857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 132 % | 102 % |
| Prated | 10 kW | 10 kW |
| SCOP | 3.37 | 2.64 |
| Tbiv | -15 °C | -13 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.34 kW | 6.3 kW |
| COP Tj = -7°C | 3.25 | 2.28 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.17 kW |
| COP Tj = +2°C | 4.21 | 3.36 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.22 kW | 4.98 kW |
| COP Tj = +7°C | 5.15 | 4.14 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.95 kW |
| COP Tj = 12°C | 7.02 | 5.52 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 8.04 kW | 7.21 kW |
| COP Tj = Tbiv | 2.06 | 1.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.04 kW | 6.63 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.06 | 1.52 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 10 kW | 10 kW |
| Annual energy consumption Qhe | 7311 kWh | 9349 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 8.04 | 6.63 |
| COP Tj = -15°C (if TOL<-20°C) | 2.06 | 1.52 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 119 % |
| Prated | 11 kW | 10.3 kW |
| SCOP | 4.23 | 3.06 |
| Tbiv | -8 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.10 kW |
| COP Tj = +2°C | 4.36 | 3.15 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.84 kW |
| COP Tj = +7°C | 5.22 | 3.90 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.89 kW |
| COP Tj = 12°C | 6.59 | 5.22 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.85 kW | 8.29 kW |
| COP Tj = Tbiv | 2.42 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.32 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.26 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.68 kW | 4.05 kW |
| Annual energy consumption Qhe | 5371 kWh | 6961 kWh |

# Model: CS3400iAWS 12 ORE-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 12 ORE-S |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 12.12 kW | 9.15 kW |
| El input | 2.98 kW | 3.62 kW |
| COP | 4.07 | 2.53 |

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

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 223 % | 149 % |
| Prated | 11 kW | 11 kW |
| SCOP | 5.65 | 3.81 |
| Tbiv | 2 °C | 3 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 10.8 kW | 9.82 kW |
| COP Tj = +2°C | 2.87 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 7.48 kW | 7.12 kW |
| COP Tj = +7°C | 5.09 | 3.26 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 10.8 kW | 10.45 kW |
| COP Tj = Tbiv | 2.87 | 2.24 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.8 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.87 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 1.18 kW |
| Annual energy consumption Qhe | 2599 kWh | 3857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 132 % | 102 % |
| Prated | 10 kW | 10 kW |
| SCOP | 3.37 | 2.64 |
| Tbiv | -15 °C | -13 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.34 kW | 6.3 kW |
| COP Tj = -7°C | 3.25 | 2.28 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.17 kW |
| COP Tj = +2°C | 4.21 | 3.36 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.22 kW | 4.98 kW |
| COP Tj = +7°C | 5.15 | 4.14 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.95 kW |
| COP Tj = 12°C | 7.02 | 5.52 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 8.04 kW | 7.21 kW |
| COP Tj = Tbiv | 2.06 | 1.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.04 kW | 6.63 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.06 | 1.52 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 10 kW | 10 kW |
| Annual energy consumption Qhe | 7311 kWh | 9349 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 8.04 | 6.63 |
| COP Tj = -15°C (if TOL<-20°C) | 2.06 | 1.52 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 119 % |
| Prated | 11 kW | 10.3 kW |
| SCOP | 4.23 | 3.06 |
| Tbiv | -8 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.10 kW |
| COP Tj = +2°C | 4.36 | 3.15 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.84 kW |
| COP Tj = +7°C | 5.22 | 3.90 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.89 kW |
| COP Tj = 12°C | 6.59 | 5.22 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.85 kW | 8.29 kW |
| COP Tj = Tbiv | 2.42 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.32 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.26 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.68 kW | 4.05 kW |
| Annual energy consumption Qhe | 5371 kWh | 6961 kWh |

# Model: CS3400iAWS 12 ORM-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 12 ORM-S |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 12.12 kW | 9.15 kW |
| El input | 2.98 kW | 3.62 kW |
| COP | 4.07 | 2.53 |

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

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 223 % | 149 % |
| Prated | 11 kW | 11 kW |
| SCOP | 5.65 | 3.81 |
| Tbiv | 2 °C | 3 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 10.8 kW | 9.82 kW |
| COP Tj = +2°C | 2.87 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 7.48 kW | 7.12 kW |
| COP Tj = +7°C | 5.09 | 3.26 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 10.8 kW | 10.45 kW |
| COP Tj = Tbiv | 2.87 | 2.24 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.8 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.87 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 1.18 kW |
| Annual energy consumption Qhe | 2599 kWh | 3857 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 132 % | 102 % |
| Prated | 10 kW | 10 kW |
| SCOP | 3.37 | 2.64 |
| Tbiv | -15 °C | -13 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.34 kW | 6.3 kW |
| COP Tj = -7°C | 3.25 | 2.28 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.17 kW |
| COP Tj = +2°C | 4.21 | 3.36 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.22 kW | 4.98 kW |
| COP Tj = +7°C | 5.15 | 4.14 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.95 kW |
| COP Tj = 12°C | 7.02 | 5.52 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 8.04 kW | 7.21 kW |
| COP Tj = Tbiv | 2.06 | 1.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.04 kW | 6.63 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.06 | 1.52 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 10 kW | 10 kW |
| Annual energy consumption Qhe | 7311 kWh | 9349 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 8.04 | 6.63 |
| COP Tj = -15°C (if TOL<-20°C) | 2.06 | 1.52 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 119 % |
| Prated | 11 kW | 10.3 kW |
| SCOP | 4.23 | 3.06 |
| Tbiv | -8 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.10 kW |
| COP Tj = +2°C | 4.36 | 3.15 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.84 kW |
| COP Tj = +7°C | 5.22 | 3.90 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.89 kW |
| COP Tj = 12°C | 6.59 | 5.22 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.85 kW | 8.29 kW |
| COP Tj = Tbiv | 2.42 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.32 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.26 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.68 kW | 4.05 kW |
| Annual energy consumption Qhe | 5371 kWh | 6961 kWh |

## Domestic Hot Water (DHW)

## Warmer Climate

| **EN 16147** | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 128 % |
| COP | 3.09 |
| Heating up time | 01:33 h:min |
| Standby power input | 41.7 W |
| Reference hot water temperature | 51.9 °C |
| Mixed water at 40°C | 264 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 79 % |
| COP | 1.93 |
| Heating up time | 02:03 h:min |
| Standby power input | 51.2 W |
| Reference hot water temperature | 52.3 °C |
| Mixed water at 40°C | 266 l |

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 104 % |
| COP | 2.52 |
| Heating up time | 01:46 h:min |
| Standby power input | 48.3 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 265 l |

# Model: CS3400iAWS 14 ORB-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 14 ORB-S |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 13.81 kW | 9.15 kW |
| El input | 3.68 kW | 3.62 kW |
| COP | 3.75 | 2.53 |

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

## Warmer Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 217 % | 147 % |
| Prated | 13 kW | 13 kW |
| SCOP | 5.5 | 3.75 |
| Tbiv | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.38 kW | 9.82 kW |
| COP Tj = +2°C | 2.77 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.1 kW | 8.48 kW |
| COP Tj = +7°C | 4.9 | 3.2 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 11.74 kW | 10.99 kW |
| COP Tj = Tbiv | 2.93 | 2.41 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.38 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.62 kW | 3.18 kW |
| Annual energy consumption Qhe | 3158 kWh | 4627 kWh |

## Colder Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 131 % | 103 % |
| Prated | 11 kW | 11 kW |
| SCOP | 3.36 | 2.64 |
| Tbiv | -15 °C | -12 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.25 kW | 6.75 kW |
| COP Tj = -7°C | 3.21 | 2.24 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.22 kW |
| COP Tj = +2°C | 4.26 | 3.43 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.19 kW | 4.99 kW |
| COP Tj = +7°C | 4.88 | 4.17 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.96 kW |
| COP Tj = 12°C | 7.02 | 5.55 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.35 kW | 7.76 kW |
| COP Tj = Tbiv | 2.02 | 1.7 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.35 kW | 6.92 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.02 | 1.53 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 11 kW | 11 kW |
| Annual energy consumption Qhe | 8067 kWh | 10280 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 9.35 | 6.92 |
| COP Tj = -15°C (if TOL<-20°C) | 2.02 | 1.53 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 117 % |
| Prated | 11.6 kW | 12 kW |
| SCOP | 4.23 | 3 |
| Tbiv | -9 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.40 kW |
| COP Tj = +2°C | 4.36 | 3.08 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.93 kW |
| COP Tj = +7°C | 5.22 | 4.03 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.91 kW |
| COP Tj = 12°C | 6.59 | 5.40 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 10.51 kW | 8.80 kW |
| COP Tj = Tbiv | 2.25 | 1.93 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.24 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.18 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.36 kW | 5.75 kW |
| Annual energy consumption Qhe | 5667 kWh | 8259 kWh |

# Model: CS3400iAWS 14 ORE-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 14 ORE-S |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 13.81 kW | 9.15 kW |
| El input | 3.68 kW | 3.62 kW |
| COP | 3.75 | 2.53 |

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

## Warmer Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 217 % | 147 % |
| Prated | 13 kW | 13 kW |
| SCOP | 5.5 | 3.75 |
| Tbiv | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.38 kW | 9.82 kW |
| COP Tj = +2°C | 2.77 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.1 kW | 8.48 kW |
| COP Tj = +7°C | 4.9 | 3.2 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 11.74 kW | 10.99 kW |
| COP Tj = Tbiv | 2.93 | 2.41 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.38 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.62 kW | 3.18 kW |
| Annual energy consumption Qhe | 3158 kWh | 4627 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 131 % | 103 % |
| Prated | 11 kW | 11 kW |
| SCOP | 3.36 | 2.64 |
| Tbiv | -15 °C | -12 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.25 kW | 6.75 kW |
| COP Tj = -7°C | 3.21 | 2.24 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.22 kW |
| COP Tj = +2°C | 4.26 | 3.43 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.19 kW | 4.99 kW |
| COP Tj = +7°C | 4.88 | 4.17 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.96 kW |
| COP Tj = 12°C | 7.02 | 5.55 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.35 kW | 7.76 kW |
| COP Tj = Tbiv | 2.02 | 1.7 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.35 kW | 6.92 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.02 | 1.53 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 11 kW | 11 kW |
| Annual energy consumption Qhe | 8067 kWh | 10280 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 9.35 | 6.92 |
| COP Tj = -15°C (if TOL<-20°C) | 2.02 | 1.53 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 117 % |
| Prated | 11.6 kW | 12 kW |
| SCOP | 4.23 | 3 |
| Tbiv | -9 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.40 kW |
| COP Tj = +2°C | 4.36 | 3.08 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.93 kW |
| COP Tj = +7°C | 5.22 | 4.03 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.91 kW |
| COP Tj = 12°C | 6.59 | 5.40 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 10.51 kW | 8.80 kW |
| COP Tj = Tbiv | 2.25 | 1.93 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.24 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.18 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.36 kW | 5.75 kW |
| Annual energy consumption Qhe | 5667 kWh | 8259 kWh |

# Model: CS3400iAWS 14 ORM-S

| Configure model | |
|---|---|
| Model name | CS3400iAWS 14 ORM-S |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 13.81 kW | 9.15 kW |
| El input | 3.68 kW | 3.62 kW |
| COP | 3.75 | 2.53 |

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

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 217 % | 147 % |
| Prated | 13 kW | 13 kW |
| SCOP | 5.5 | 3.75 |
| Tbiv | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.38 kW | 9.82 kW |
| COP Tj = +2°C | 2.77 | 2.07 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 8.1 kW | 8.48 kW |
| COP Tj = +7°C | 4.9 | 3.2 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.12 kW | 5.73 kW |
| COP Tj = 12°C | 7.02 | 4.91 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 11.74 kW | 10.99 kW |
| COP Tj = Tbiv | 2.93 | 2.41 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.38 kW | 9.82 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 2.07 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.62 kW | 3.18 kW |
| Annual energy consumption Qhe | 3158 kWh | 4627 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 131 % | 103 % |
| Prated | 11 kW | 11 kW |
| SCOP | 3.36 | 2.64 |
| Tbiv | -15 °C | -12 °C |
| TOL | -15 °C | -15 °C |
| Pdh Tj = -7°C | 6.25 kW | 6.75 kW |
| COP Tj = -7°C | 3.21 | 2.24 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.45 kW | 4.22 kW |
| COP Tj = +2°C | 4.26 | 3.43 |
| Cdh Tj = +2 °C | 0.98 | 0.98 |
| Pdh Tj = +7°C | 5.19 kW | 4.99 kW |
| COP Tj = +7°C | 4.88 | 4.17 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.12 kW | 5.96 kW |
| COP Tj = 12°C | 7.02 | 5.55 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 9.35 kW | 7.76 kW |
| COP Tj = Tbiv | 2.02 | 1.7 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.35 kW | 6.92 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.02 | 1.53 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 11 kW | 11 kW |
| Annual energy consumption Qhe | 8067 kWh | 10280 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 9.35 | 6.92 |
| COP Tj = -15°C (if TOL<-20°C) | 2.02 | 1.53 |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

## Average Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| **EN 14825** |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 166 % | 117 % |
| Prated | 11.6 kW | 12 kW |
| SCOP | 4.23 | 3 |
| Tbiv | -9 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.10 kW | 8.29 kW |
| COP Tj = -7°C | 2.48 | 1.73 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.07 kW | 6.40 kW |
| COP Tj = +2°C | 4.36 | 3.08 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.25 kW | 4.93 kW |
| COP Tj = +7°C | 5.22 | 4.03 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 6.15 kW | 5.91 kW |
| COP Tj = 12°C | 6.59 | 5.40 |
| Cdh Tj = +12 °C | 0.98 | 0.98 |
| Pdh Tj = Tbiv | 10.51 kW | 8.80 kW |
| COP Tj = Tbiv | 2.25 | 1.93 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.24 kW | 6.25 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.18 | 1.43 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1 | 1 |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| PTO | 0 W | 0 W |
| PSB | 20 W | 20 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.36 kW | 5.75 kW |
| Annual energy consumption Qhe | 5667 kWh | 8259 kWh |

## Domestic Hot Water (DHW)

## Warmer Climate

| **EN 16147** | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 128 % |
| COP | 3.09 |
| Heating up time | 01:33 h:min |
| Standby power input | 41.7 W |
| Reference hot water temperature | 51.9 °C |
| Mixed water at 40°C | 264 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 79 % |
| COP | 1.93 |
| Heating up time | 02:03 h:min |
| Standby power input | 51.2 W |
| Reference hot water temperature | 52.3 °C |
| Mixed water at 40°C | 266 l |

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 104 % |
| COP | 2.52 |
| Heating up time | 01:46 h:min |
| Standby power input | 48.3 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 265 l |