| Subtype Buderus Logatherm WPS 8K-1 | |
|---|---|
| Certificate Holder | Bosch Thermotechnik GmbH (Buderus) |
| Address | Sophienstraße 30-32 |
| ZIP | 35576 |
| City | Wetzlar |
| Country | DE |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | Buderus Logatherm WPS 8K-1 |
| Registration number | 011-1W0178 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 1.95 kg |
| Certification Date | 17.11.2017 |
| Testing basis | HP KEYMARK certification scheme rules rev. 14 |
| Testing laboratory | Universität Stuttgart, Prüfstelle HLK am Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE), DE |

| Model Buderus Logatherm WPS 8K-1 | |
|---|---|
| Model name | Buderus Logatherm WPS 8K-1 |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

| General data | |
|---|---|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

| Brine/Water<br>EN 16147 \| Average Climate | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 88 % |
| COP | 2.13 |
| Heating up time | 1:16 h:min |
| Standby power input | 33.9 W |
| Reference hot water temperature | 44.6 °C |
| Mixed water at 40°C | 181 l |

| EN 16147 \| Colder Climate | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 88 % |
| COP | 2.13 |
| Heating up time | 76.4 h:min |
| Standby power input | 33.9 W |
| Reference hot water temperature | 44.6 °C |
| Mixed water at 40°C | 181 l |

| EN 16147 \| Warmer Climate | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 88 % |
| COP | 2.13 |
| Heating up time | 76.4 h:min |
| Standby power input | 33.9 W |
| Reference hot water temperature | 44.6 °C |
| Mixed water at 40°C | 181 l |

| EN 14511-4 \| Heating | |
|---|---|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| | | |
|---|---|---|
| Starting and operating test | passed | |

| EN 14511-2 \| Heating | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Heat output | 7.45 kW | 6.79 kW |
| El input | 1.66 kW | 2.35 kW |
| COP | 4.49 | 2.89 |

| EN 12102-1 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

| EN 14825 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 184 % | 137 % |
| Prated | 7 kW | 8 kW |
| SCOP | 4.81 | 3.64 |
| Tbiv | -10 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.46 kW | 6.91 kW |
| COP Tj = -7°C | 4.54 | 3.09 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 7.53 kW | 7.14 kW |
| COP Tj = +2°C | 4.81 | 3.62 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 7.59 kW | 7.27 kW |
| COP Tj = +7°C | 5.07 | 4.02 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 7.65 kW | 7.38 kW |
| COP Tj = 12°C | 5.36 | 4.47 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 7.45 kW | 6.94 kW |
| COP Tj = Tbiv | 4.49 | 3.15 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.45 kW | 6.79 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.49 | 2.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 6 W | 6 W |
| PTO | 6 W | 6 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

| | | |
|---|---|---|
| Supplementary Heater: PSUP | 0 kW | 1.21 kW |
| Annual energy consumption Qhe | 3007 kWh | 4547 kWh |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 189 % | 141 % |
| Prated | 7.00 kW | 8.00 kW |
| SCOP | 4.93 | 3.73 |
| Tbiv | -22 °C | -16 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.54 kW | 7.1 kW |
| COP Tj = -7°C | 4.85 | 3.51 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 7.59 kW | 7.25 kW |
| COP Tj = +2°C | 5.09 | 3.94 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 7.63 kW | 7.35 kW |
| COP Tj = +7°C | 5.27 | 4.33 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 7.64 kW | 7.42 kW |
| COP Tj = 12°C | 5.33 | 4.65 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 7.45 kW | 6.95 kW |
| COP Tj = Tbiv | 4.49 | 3.17 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.45 kW | 6.79 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.49 | 2.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 6 W | 6 W |
| PTO | 6 W | 6 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 1.21 kW |
| Annual energy consumption Qhe | 3498 kWh | 5289 kWh |
| Cdh Tj = -15 °C | 1.00 | 1.00 |

## EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

## EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 185 % | 138 % |
| Prated | 7.00 kW | 8.00 kW |
| SCOP | 4.83 | 3.65 |
| Tbiv | 2 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.45 kW | 6.79 kW |
| COP Tj = +2°C | 4.49 | 2.89 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 7.52 kW | 7.04 kW |
| COP Tj = +7°C | 4.75 | 3.37 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 7.61 kW | 7.31 kW |
| COP Tj = 12°C | 5.17 | 4.17 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 7.45 kW | 6.93 kW |
| COP Tj = Tbiv | 4.49 | 3.13 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.45 kW | 6.79 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.49 | 2.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 6 W | 6 W |
| PTO | 6 W | 6 W |
| PSB | 6 W | 6 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 1.21 kW |
| Annual energy consumption Qhe | 1936 kWh | 2932 kWh |