Login

| Summary of | Buderus Logatherm WPLS8.2 | Reg. No. | 011-1W0142 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Bosch Thermotechnik GmbH (Buderus) | | |
| Address | Sophienstraße 30-32 | Zip | 35576 |
| City | Wetzlar | Country | Germany |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Subtype title | Buderus Logatherm WPLS8.2 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.6 kg | | |
| Certification Date | 18.07.2017 | | |

# Model: Buderus Logatherm WPLS8.2 RE

| Configure model | |
|---|---|
| Model name | Buderus Logatherm WPLS8.2 RE |
| 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 | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| COP | 4.50 | 2.21 |

| 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 | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| COP Tj = +7°C | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

## Colder Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7°C | 3.86 kW | 4.41 kW |
| COP Tj = -7°C | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = +2°C | 3.16 kW | 2.99 kW |
| COP Tj = +2°C | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.983 |
| Pdh Tj = +7°C | 3.68 kW | 3.52 kW |
| COP Tj = +7°C | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.60 kW | 6.60 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 5.32 |
| COP Tj = -15°C (if TOL<-20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |

## Warmer Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| COP Tj = +2°C | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = +7°C | 4.72 kW | 4.00 kW |
| COP Tj = +7°C | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

# Model: Buderus Logatherm WPLS8.2 RB

| Configure model | |
|---|---|
| Model name | Buderus Logatherm WPLS8.2 RB |
| 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 | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| COP | 4.50 | 2.21 |

| 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 | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| COP Tj = +7°C | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | n/a | |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

## Colder Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7°C | 3.86 kW | 4.41 kW |
| COP Tj = -7°C | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = +2°C | 3.16 kW | 2.99 kW |
| COP Tj = +2°C | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.983 |
| Pdh Tj = +7°C | 3.68 kW | 3.52 kW |
| COP Tj = +7°C | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | n/a | |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 5.32 |
| COP Tj = -15°C (if TOL<-20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| COP Tj = +2°C | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = +7°C | 4.72 kW | 4.00 kW |
| COP Tj = +7°C | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | n/a | |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

# Model: Buderus Logatherm WPLS8.2 RT

| Configure model | |
|---|---|
| Model name | Buderus Logatherm WPLS8.2 RT |
| 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 | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| COP | 4.50 | 2.21 |

| 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 | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| COP Tj = +7°C | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

## Colder Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7°C | 3.86 kW | 4.41 kW |
| COP Tj = -7°C | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = +2°C | 3.16 kW | 2.99 kW |
| COP Tj = +2°C | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.996 |
| Pdh Tj = +7°C | 3.68 kW | 3.52 kW |
| COP Tj = +7°C | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.60 kW | 6.60 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 1.90 |
| COP Tj = -15°C (if TOL<-20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |

## Warmer Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| COP Tj = +2°C | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | |
| Pdh Tj = +7°C | 4.72 kW | 4.00 kW |
| COP Tj = +7°C | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 99 % |
| COP | 2.30 |
| Heating up time | 02:07 h:min |
| Standby power input | 65.0 W |
| Reference hot water temperature | 52.3 °C |
| Mixed water at 40°C | 257 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 77 % |
| COP | 1.73 |
| Heating up time | 02:49 h:min |
| Standby power input | 118.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 257 l |

## Warmer Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 114 % |
| COP | 2.66 |
| Heating up time | 01:48 h:min |
| Standby power input | 54.0 W |
| Reference hot water temperature | 52.4 °C |
| Mixed water at 40°C | 257 l |

# Model: Buderus Logatherm WPLS8.2 RTS

| Configure model | |
|---|---|
| Model name | Buderus Logatherm WPLS8.2 RTS |
| 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 | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| COP | 4.50 | 2.21 |

| 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 | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| COP Tj = +7°C | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

## Colder Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7°C | 3.86 kW | 4.41 kW |
| COP Tj = -7°C | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = +2°C | 3.16 kW | 2.99 kW |
| COP Tj = +2°C | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.983 |
| Pdh Tj = +7°C | 3.68 kW | 3.52 kW |
| COP Tj = +7°C | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.60 kW | 6.60 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 5.32 |
| COP Tj = -15°C (if TOL<-20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |

## Warmer Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| COP Tj = +2°C | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = +7°C | 4.72 kW | 4.00 kW |
| COP Tj = +7°C | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 91 % |
| COP | 2.11 |
| Heating up time | 02:04 h:min |
| Standby power input | 69.7 W |
| Reference hot water temperature | 51.3 °C |
| Mixed water at 40°C | 236 l |

## Colder Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | L |
| Efficiency ηDHW | 75 % |
| COP | 1.69 |
| Heating up time | 02:00 h:min |
| Standby power input | 120.4 W |
| Reference hot water temperature | 50.9 °C |
| Mixed water at 40°C | 252 l |

## Warmer Climate

## EN 16147

| | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 101 % |
| COP | 2.34 |
| Heating up time | 01:46 h:min |
| Standby power input | 66.7 W |
| Reference hot water temperature | 51.3 °C |
| Mixed water at 40°C | 252 l |