

Subtype Buderus Logatherm WPS 38.2 HT

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|---------------------|---|
| 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 38.2 HT |
| Registration number | 011-1W0162 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 6.3 kg |
| Certification Date | 09.10.2017 |

Model Buderus Logatherm WPS 38.2 HT

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| Model name | Buderus Logatherm WPS 38.2 HT |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

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

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 38.7 kW | 38.39 kW |
| El input | 8.7 kW | 10.32 kW |
| COP | 4.45 | 3.72 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 55 dB(A) | 55 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 195 % | 164 % |
| Prated | 38.7 kW | 38.39 kW |
| SCOP | 5.06 | 4.29 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 34.23 kW | 33.96 kW |
| COP Tj = -7°C | 4.62 | 3.63 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 20.29 kW | 20.55 kW |
| COP Tj = +2°C | 5.31 | 4.32 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 20.23 kW | 20.49 kW |
| COP Tj = +7°C | 5.44 | 4.61 |

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|---|-----------|-----------|
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 20.19 kW | 20.39 kW |
| COP Tj = 12°C | 5.56 | 5.12 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 38.7 kW | 38.39 kW |
| COP Tj = Tbiv | 4.45 | 3.72 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 38.70 kW | 38.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.45 | 3.72 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 68 °C | 68 °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 | n/a | n/a |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Qhe | 15792 kWh | 18477 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 55 dB(A) | 55 dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 204 % | 166 % |
| Prated | 33.00 kW | 33.00 kW |
| SCOP | 5.31 | 4.35 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 20.29 kW | 20.58 kW |
| COP Tj = -7°C | 5.31 | 4.13 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 20.25 kW | 20.51 kW |
| COP Tj = +2°C | 5.41 | 4.48 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 20.21 kW | 20.43 kW |
| COP Tj = +7°C | 5.51 | 4.91 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 20.21 kW | 20.36 kW |
| COP Tj = 12°C | 5.5 | 5.29 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 33 kW | 33 kW |
| COP Tj = Tbiv | 4.56 | 3.59 |

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|---|-----------|-----------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 33 kW | 33 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.56 | 3.59 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 68 °C | 68 °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 | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Qhe | 15319 kWh | 18715 kWh |
| Cdh Tj = -15 °C | 1.00 | 1.00 |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 55 dB(A) | 55 dB(A) |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 201 % | 162 % |
| Prated | 31.00 kW | 32.00 kW |
| SCOP | 5.22 | 4.24 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2 °C | 31.00 kW | 32 kW |
| COP Tj = +2 °C | 4.59 | 3.56 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7 °C | 20.32 kW | 20.61 kW |
| COP Tj = +7 °C | 5.2 | 3.94 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12 °C | 20.24 kW | 20.47 kW |
| COP Tj = 12 °C | 5.43 | 4.69 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 31 kW | 32.00 kW |
| COP Tj = Tbiv | 4.59 | 3.56 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 31 kW | 32 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.59 | 3.56 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 68 °C | 68 °C |
| Poff | 11 W | 11 W |

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|--|----------|-----------|
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Q _{he} | 7929 kWh | 10075 kWh |