

Subtype Buderus Logatherm WPS 48.2 HT

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 48.2 HT
Registration number	011-1W0163
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	7.5 kg
Certification Date	09.10.2017

**Model Buderus Logatherm WPS 48.2 HT**

Model name	Buderus Logatherm WPS 48.2 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**

Power supply	3x400V 50Hz
Off-peak product	No

**Brine/Water****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	47.35 kW	47.69 kW
EI input	10.89 kW	15.43 kW
COP	4.35	3.09

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	192 %	159 %
Prated	47.35 kW	47.69 kW
SCOP	5	4.16
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	41.89 kW	42.19 kW
COP Tj = -7°C	4.5	3.34
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	25.31 kW	25.49 kW
COP Tj = +2°C	5.12	4.26
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	25.32 kW	25.49 kW
COP Tj = +7°C	5.24	4.53

Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	25.32 kW	25.5 kW
COP Tj = 12°C	5.35	4.98
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	47.35 kW	47.69 kW
COP Tj = Tbiv	4.35	3.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.35 kW	47.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.35	3.09
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	19560 kWh	23657 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	197 %	162 %
Prated	41.00 kW	42.00 kW
SCOP	5.13	4.26
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	25.31 kW	25.48 kW
COP Tj = -7°C	5.12	4.09
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	25.32 kW	25.49 kW
COP Tj = +2°C	5.21	4.42
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	25.32 kW	25.5 kW
COP Tj = +7°C	5.3	4.80
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	25.32 kW	25.51 kW
COP Tj = 12°C	5.3	5.15
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	41 kW	42 kW
COP Tj = Tbiv	4.43	3.14

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	41 kW	42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.43	3.14
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	19718 kWh	24316 kWh
Cdh Tj = -15 °C	1.00	1.00

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
ηs	194 %	158 %
Prated	39.00 kW	39.00 kW
SCOP	5.05	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	39.00 kW	39 kW
COP Tj = +2°C	4.46	3.17
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	25.3 kW	25.49 kW
COP Tj = +7°C	5.02	3.93
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	25.32 kW	25.49 kW
COP Tj = 12°C	5.23	4.59
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	39 kW	39.00 kW
COP Tj = Tbiv	4.46	3.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	39 kW	39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.46	3.17
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	10314 kWh	12530 kWh