

## Subtype Buderus Logatherm WPS 17-1

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 17-1
Registration number	011-1W0184
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.8 kg
Certification Date	17.11.2017

## Model Buderus Logatherm WPS 17-1

Model name	Buderus Logatherm WPS 17-1
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	135 %
Prated	19 kW	18 kW
SCOP	4.66	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.14 kW	16 kW
COP Tj = -7°C	4.42	3.05
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	17.26 kW	16.4 kW
COP Tj = +2°C	4.65	3.54
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	17.35 kW	16.63 kW
COP Tj = +7°C	4.86	3.91
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	17.43 kW	16.83 kW
COP Tj = 12°C	5.08	4.33
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	17.14 kW	16 kW
COP Tj = Tbiv	4.42	3.05

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.08 kW	15.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.32	2.87
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	1.92 kW	2.19 kW
Annual energy consumption Qhe	8417 kWh	10400 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	138 %
Prated	19.00 kW	18.00 kW
SCOP	4.77	3.66
Tbiv	-18 °C	-17 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	17.28 kW	16.32 kW
COP Tj = -7°C	4.69	3.43
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	17.36 kW	16.59 kW
COP Tj = +2°C	4.88	3.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	17.41 kW	16.78 kW
COP Tj = +7°C	5.02	4.20
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	17.42 kW	16.91 kW
COP Tj = 12°C	5.05	4.49
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	17.17 kW	16.03 kW
COP Tj = Tbiv	4.47	3.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.08 kW	15.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.32	2.87
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	1.92 kW	2.19 kW
Annual energy consumption Qhe	9817 kWh	12132 kWh
Cdh Tj = -15 °C	1.00	1.00

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	180 %	136 %
Prated	19.00 kW	18.00 kW
SCOP	4.70	3.59
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	17.08 kW	15.81 kW
COP Tj = +2°C	4.32	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	17.24 kW	16.23 kW
COP Tj = +7°C	4.6	3.31
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	17.38 kW	16.7 kW
COP Tj = 12°C	4.94	4.05
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	17.17 kW	16.02 kW
COP Tj = Tbiv	4.47	3.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.08 kW	15.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.32	2.87
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	1.92 kW	2.19 kW

Annual energy consumption  $Q_{he}$ 

5397 kWh

6692 kWh

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