

Subtype Buderus Logatherm WPS 6-1

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 6-1
Registration number	011-1W0180
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.55 kg
Certification Date	17.11.2017

Model Buderus Logatherm WPS 6-1

Model name	Buderus Logatherm WPS 6-1
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	46 dB(A)	46 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	171 %	125 %
Prated	7 kW	6 kW
SCOP	4.48	3.31
Tbiv	-5 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.63 kW	5.16 kW
COP Tj = -7°C	4.28	2.8
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.69 kW	5.29 kW
COP Tj = +2°C	4.55	3.31
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.74 kW	5.38 kW
COP Tj = +7°C	4.77	3.68
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	5.79 kW	5.47 kW
COP Tj = 12°C	5.02	4.08
Cdh Tj = +12 °C	0.99	1.00
Pdh Tj = Tbiv	5.65 kW	5.18 kW
COP Tj = Tbiv	4.38	2.87

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.61 kW	5.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.17	2.60
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	1.39 kW	0.89 kW
Annual energy consumption Qhe	3231 kWh	3739 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	176 %	128 %
Prated	7.00 kW	6.00 kW
SCOP	4.6	3.4
Tbiv	-14 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.7 kW	5.26 kW
COP Tj = -7°C	4.6	3.2
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.74 kW	5.36 kW
COP Tj = +2°C	4.79	3.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.78 kW	5.44 kW
COP Tj = +7°C	4.95	3.96
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	5.78 kW	5.51 kW
COP Tj = 12°C	4.98	4.24
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.67 kW	5.18 kW
COP Tj = Tbiv	4.46	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.61 kW	5.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.17	2.6
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	1.39 kW	0.89 kW
Annual energy consumption Q _{he}	3753 kWh	4348 kWh
C _{dh} T _j = -15 °C	1.00	1.00

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	171 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.48	3.32
T _{biv}	5 °C	4 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	5.61 kW	5.11 kW
COP T _j = +2°C	4.17	2.6
C _{dh} T _j = +2 °C	1.00	1.00
P _{dh} T _j = +7°C	5.68 kW	5.23 kW
COP T _j = +7°C	4.51	3.08
C _{dh} T _j = +7 °C	1.00	1.00
P _{dh} T _j = 12°C	5.76 kW	5.41 kW
COP T _j = 12°C	4.86	3.81
C _{dh} T _j = +12 °C	1.00	1.00
P _{dh} T _j = T _{biv}	5.66 kW	5.17 kW
COP T _j = T _{biv}	4.42	2.84
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.61 kW	5.11 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.17	2.6
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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	1.39 kW	0.89 kW

Annual energy consumption Q_{he}

2085 kWh

2417 kWh
