

Subtype Buderus Logatherm WPS 10K-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 10K-1
Registration number	011-1W0179
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.2 kg
Certification Date	17.11.2017

Model Buderus Logatherm WPS 10K-1

Model name	Buderus Logatherm WPS 10K-1
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	83 %
COP	2.03
Heating up time	1:02 h:min
Standby power input	25.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	179 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	83 %
COP	2.03
Heating up time	61.9 h:min
Standby power input	25.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	179 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	83 %
COP	2.03
Heating up time	61.9 h:min
Standby power input	25.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	179 l

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	9.87 kW	9.15 kW
El input	2.27 kW	3.26 kW
COP	4.34	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	133 %
Prated	11 kW	11 kW
SCOP	4.73	3.51
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	9.24 kW
COP Tj = -7°C	4.46	2.98
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	9.96 kW	9.45 kW
COP Tj = +2°C	4.72	3.49
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	10.01 kW	9.58 kW
COP Tj = +7°C	4.97	3.89
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	10.07 kW	9.72 kW
COP Tj = 12°C	5.23	4.35
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	9.9 kW	9.29 kW
COP Tj = Tbiv	4.46	3.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.87 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.81
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	1.13 kW	1.85 kW
Annual energy consumption Q _{he}	4809 kWh	6469 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	186 %	136 %
Prated	11.00 kW	11.00 kW
SCOP	4.85	3.6
T _{biv}	-18 °C	-16 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7 °C	9.97 kW	9.4 kW
COP T _j = -7 °C	4.77	3.38
C _{dh} T _j = -7 °C	1.00	1.00
P _{dh} T _j = +2 °C	10.02 kW	9.55 kW
COP T _j = +2 °C	4.99	3.81
C _{dh} T _j = +2 °C	1.00	1.00
P _{dh} T _j = +7 °C	10.05 kW	9.68 kW
COP T _j = +7 °C	5.16	4.21
C _{dh} T _j = +7 °C	1.00	1.00
P _{dh} T _j = 12 °C	10.06 kW	9.77 kW
COP T _j = 12 °C	5.2	4.54
C _{dh} T _j = +12 °C	1.00	1.00
P _{dh} T _j = T _{biv}	9.91 kW	9.28 kW
COP T _j = T _{biv}	4.51	3.06
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.87 kW	9.15 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.34	2.81
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
P _{off}	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	1.13 kW	1.85 kW
Annual energy consumption Q _{he}	5588 kWh	7524 kWh
C _{dh} T _j = -15 °C	1.00	1.00

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	182 %	133 %
Prated	11.00 kW	11.00 kW
SCOP	4.76	3.53
Tbiv	4 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.87 kW	9.15 kW
COP Tj = +2°C	4.34	2.81
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	9.95 kW	9.36 kW
COP Tj = +7°C	4.67	3.25
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	10.03 kW	9.62 kW
COP Tj = 12°C	5.06	4.04
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	9.91 kW	9.29 kW
COP Tj = Tbiv	4.52	3.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.87 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.81
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	1.13 kW	1.85 kW
Annual energy consumption Qhe	3086 kWh	4163 kWh