

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Buderus Logatherm WPS 10K-1	Reg. No.	011-1W0179
Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	IGE Institut für GebäudeEnergetik		
Subtype title	Buderus Logatherm WPS 10K-1		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.2 kg		

# Model: Buderus Logatherm WPS 10K-1

## General Data

Power supply	3x400V 50Hz
Off-peak product	No

## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	10.15 kW	9.33 kW
El input	2.17 kW	3.22 kW
COP	4.68	2.90
Indoor water flow rate	1.78 m <sup>3</sup> /h	1.01 m <sup>3</sup> /h

### EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

## Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	190 %	136 %
Prated	11.00 kW	11.00 kW
SCOP	4.95	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.90 kW	9.30 kW
COP Tj = -7°C	4.74	3.09
Pdh Tj = +2°C	10.00 kW	9.50 kW
COP Tj = +2°C	4.95	3.55
Pdh Tj = +7°C	10.00 kW	9.60 kW
COP Tj = +7°C	5.14	3.98
Pdh Tj = 12°C	10.10 kW	9.80 kW
COP Tj = 12°C	5.34	4.41
Pdh Tj = Tbiv	9.90 kW	9.20 kW
COP Tj = Tbiv	4.63	2.88

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Pdh Tj = TOL	9.90 kW	9.20 kW
COP Tj = TOL	4.63	2.88
Cdh	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	Electric	Electric
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	4672 kWh	6022 kWh

## Domestic Hot Water (DHW)

### Average Climate

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<b>EN 16147</b>	
Declared load profile	L
COP	2.08
Heating up time	01:05 h:min
Standby power input	66.0 W
Reference hot water temperature	49.6 °C
Mixed water at 40°C	220 l
Efficiency $\eta_{DHW}$	89 %