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Summary of	Buderus Logatherm WPS 13-1	Reg. No.	011-1W0183
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		
Subtype title	Buderus Logatherm WPS 13-1		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.65 kg		

Model: Buderus Logatherm WPS 13-1

Configure model	
Model name	Buderus Logatherm WPS 13-1
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.82 kW	11.95 kW
El input	2.82 kW	4.11 kW
COP	4.54	2.91

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	48 dB(A)	48 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	187 %	133 %
Prated	14.00 kW	13.00 kW
SCOP	4.88	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.60 kW	11.60 kW
COP Tj = -7°C	4.67	2.98
Pdh Tj = +2°C	12.70 kW	12.00 kW
COP Tj = +2°C	4.88	3.45
Pdh Tj = +7°C	12.80 kW	12.20 kW
COP Tj = +7°C	5.08	3.89
Pdh Tj = 12°C	12.90 kW	12.40 kW
COP Tj = 12°C	5.27	4.32
Pdh Tj = Tbiv	12.60 kW	11.60 kW
COP Tj = Tbiv	4.67	2.98

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	12.50 kW	11.40 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.56	2.76
$C_{dh} T_j = TOL$ 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	1.70 kW	1.70 kW
Annual energy consumption Q_{he}	6012 kWh	7703 kWh