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Summary of	Buderus Logatherm WPS 48.2 HT	Reg. No.	011-1W0163
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 48.2 HT		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	7.5 kg		

# Model: Buderus Logatherm WPS 48.2 HT

Configure model	
Model name	Buderus Logatherm WPS 48.2 HT
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 14511-4	
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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	47.37 kW	47.69 kW
El input	10.86 kW	15.39 kW
COP	4.36	3.10

## Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	195 %	162 %
Prated	45.00 kW	47.00 kW
SCOP	5.07	4.24
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	39.81 kW	41.58 kW
COP Tj = -7°C	4.55	3.54
Pdh Tj = +2°C	25.31 kW	25.48 kW
COP Tj = +2°C	5.17	4.30
Pdh Tj = +7°C	25.32 kW	25.48 kW
COP Tj = +7°C	5.26	4.57
Pdh Tj = 12°C	25.32 kW	25.49 kW
COP Tj = 12°C	5.32	4.80
Pdh Tj = Tbiv	47.37 kW	47.69 kW
COP Tj = Tbiv	4.36	3.10

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	47.37 kW	47.69 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.36	3.10
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	1.00	1.00
WTOL	68 °C	68 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	18351 kWh	22882 kWh