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Summary of	Buderus Logatherm WPS 54.2 HT	Reg. No.	011-1W0164
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 54.2 HT		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	9.5 kg		

Model: Buderus Logatherm WPS 54.2 HT

Configure model

Model name	Buderus Logatherm WPS 54.2 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
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	54.94 kW	57.33 kW
El input	12.10 kW	18.38 kW
COP	4.54	3.12

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	67 dB(A)	67 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	204 %	162 %
Prated	53.00 kW	54.00 kW
SCOP	5.30	4.24
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	46.88 kW	47.77 kW
COP Tj = -7°C	4.62	3.46
Pdh Tj = +2°C	28.80 kW	29.06 kW
COP Tj = +2°C	5.42	4.31
Pdh Tj = +7°C	28.76 kW	28.90 kW
COP Tj = +7°C	5.55	4.60
Pdh Tj = 12°C	28.72 kW	28.75 kW
COP Tj = 12°C	5.63	4.84
Pdh Tj = Tbiv	54.94 kW	57.33 kW
COP Tj = Tbiv	4.54	3.12

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	54.94 kW	57.33 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.54	3.12
$C_{dh} T_j = TOL$ 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}	20646 kWh	26308 kWh