Subtype Buderus Logatherm WPS 80.2 HT

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 80.2 HT
Registration number	011-1W0167
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	10.8 kg
Certification Date	09.10.2017

Model Buderus Logatherm WPS 80.2 HT	
Model name	Buderus Logatherm WPS 80.2 HT
Application	Heating (medium 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 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	77.96 kW	81.06 kW
El input	18 kW	26.49 kW
COP	4.33	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	199 %	154 %
Prated	77.96 kW	81.06 kW
SCOP	5.16	4.05
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	68.96 kW	71.71 kW
COP Tj = -7°C	4.51	3.3
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	41.94 kW	42.2 kW
COP Tj = +2°C	5.26	4.23
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	41.86 kW	42.25 kW
COP Tj = +7°C	5.39	4.53

Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.78 kW	42.29 kW
COP Tj = 12°C	5.52	4.8
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	77.96 kW	81.06 kW
COP Tj = Tbiv	4.33	3.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	77.96 kW	81.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.33	3.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	31189 kWh	41390 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	203 %	161 %
Prated	69.00 kW	69.00 kW
SCOP	5.28	4.21
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	41.94 kW	42.17 kW
COP Tj = -7°C	5.26	4.05
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	41.87 kW	42.23 kW
COP Tj = +2°C	5.37	4.39
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	41.81 kW	42.27 kW
COP Tj = +7°C	5.47	4.69
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.82 kW	42.28 kW
COP Tj = 12°C	5.46	4.89
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	69 kW	69 kW
COP Tj = Tbiv	4.43	3.12

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	69 kW	69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.43	3.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	32245 kWh	40365 kWh
Cdh Tj = -15 °C	1.00	1.00

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	200 %	157 %
Prated	65.00 kW	65.00 kW
SCOP	5.21	4.12
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	65.00 kW	65 kW
COP Tj = +2°C	4.48	3.14
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	42 kW	42.25 kW
COP Tj = +7°C	5.16	3.87
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.86 kW	42.25 kW
COP Tj = 12°C	5.39	4.55
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	65 kW	65.00 kW
COP Tj = Tbiv	4.48	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	65 kW	65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	9 W	9 W

PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	16681 kWh	21062 kWh