Subtype Buderus Logatherm WPS 8-1	
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 8-1
Registration number	011-1W0181
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.95 kg
Certification Date	17.11.2017
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Universität Stuttgart, Prüfstelle HLK am Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE), DE

Model Buderus Logatherm WPS 8-1	
Model name	Buderus Logatherm WPS 8-1
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	7.45 kW	6.88 kW
El input	1.69 kW	2.52 kW
COP	4.42	2.73

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	182 %	134 %
Prated	9 kW	8 kW
SCOP	4.75	3.54
Tbiv	-5 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.48 kW	6.97 kW
COP Tj = -7°C	4.53	2.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	7.54 kW	7.15 kW
COP Tj = +2°C	4.8	3.53
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	7.60 kW	7.27 kW
COP Tj = +7°C	5.03	3.94

Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	7.65 kW	7.38 kW
COP Tj = 12°C	5.28	4.39
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	7.5 kW	6.99 kW
COP Tj = Tbiv	4.62	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.45 kW	6.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	2.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	1.55 kW	1.12 kW
Annual energy consumption Qhe	3918 kWh	4671 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
ηs	187 %	137 %
Prated	9.00 kW	8.00 kW
SCOP	4.87	3.63
Tbiv	-15 °C	-17 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.56 kW	7.12 kW
COP Tj = -7°C	4.85	3.4
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	7.6 kW	7.25 kW
COP Tj = +2°C	5.05	3.86
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	7.64 kW	7.35 kW
COP Tj = +7°C	5.21	4.25
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	7.64 kW	7.42 kW
COP Tj = 12°C	5.24	4.57
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	7.51 kW	6.98 kW
COP Tj = Tbiv	4.68	3

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.45 kW	6.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	2.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	1.55 kW	1.12 kW
Annual energy consumption Qhe	4551 kWh	5425 kWh
Cdh Tj = -15 °C	1.00	1.00

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	183 %	134 %
Prated	9.00 kW	8.00 kW
SCOP	4.77	3.55
Tbiv	5 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.45 kW	6.88 kW
COP Tj = +2°C	4.42	2.73
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	7.53 kW	7.07 kW
COP Tj = +7°C	4.75	3.26
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	7.62 kW	7.31 kW
COP Tj = 12°C	5.12	4.09
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	7.51 kW	6.98 kW
COP Tj = Tbiv	4.66	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.45 kW	6.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	2.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	1.55 kW	1.12 kW
Annual energy consumption Qhe	2521 kWh	3015 kWh