

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 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
η_s	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 Q _{he}	32245 kWh	40365 kWh
C _{dh} T _j = -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
η _s	200 %	157 %
Prated	65.00 kW	65.00 kW
SCOP	5.21	4.12
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	65.00 kW	65 kW
COP T _j = +2°C	4.48	3.14
C _{dh} T _j = +2 °C	1.00	1.00
P _{dh} T _j = +7°C	42 kW	42.25 kW
COP T _j = +7°C	5.16	3.87
C _{dh} T _j = +7 °C	1.00	1.00
P _{dh} T _j = 12°C	41.86 kW	42.25 kW
COP T _j = 12°C	5.39	4.55
C _{dh} T _j = +12 °C	1.00	1.00
P _{dh} T _j = T _{biv}	65 kW	65.00 kW
COP T _j = T _{biv}	4.48	3.14
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	65 kW	65 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.48	3.14
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	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 Q_{he}

16681 kWh

21062 kWh
