

Subtype Buderus Logatherm WPS 48.2 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 48.2 HT
Registration number	011-1W0163
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	7.5 kg
Certification Date	09.10.2017

Model Buderus Logatherm WPS 48.2 HT

Model name	Buderus Logatherm WPS 48.2 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	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	192 %	159 %
Prated	47.35 kW	47.69 kW
SCOP	5	4.16
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	41.89 kW	42.19 kW
COP Tj = -7°C	4.5	3.34
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	25.31 kW	25.49 kW
COP Tj = +2°C	5.12	4.26
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	25.32 kW	25.49 kW
COP Tj = +7°C	5.24	4.53
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	25.32 kW	25.5 kW
COP Tj = 12°C	5.35	4.98
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	47.35 kW	47.69 kW
COP Tj = Tbiv	4.35	3.09

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.35 kW	47.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.35	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 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	19560 kWh	23657 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	197 %	162 %
Prated	41.00 kW	42.00 kW
SCOP	5.13	4.26
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	25.31 kW	25.48 kW
COP Tj = -7°C	5.12	4.09
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	25.32 kW	25.49 kW
COP Tj = +2°C	5.21	4.42
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	25.32 kW	25.5 kW
COP Tj = +7°C	5.3	4.80
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	25.32 kW	25.51 kW
COP Tj = 12°C	5.3	5.15
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	41 kW	42 kW
COP Tj = Tbiv	4.43	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	41 kW	42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.43	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00

WTOL	68 °C	68 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 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}	19718 kWh	24316 kWh
C _{dh} T _j = -15 °C	1.00	1.00

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	194 %	158 %
Prated	39.00 kW	39.00 kW
SCOP	5.05	4.16
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	39.00 kW	39 kW
COP T _j = +2°C	4.46	3.17
C _{dh} T _j = +2 °C	1.00	1.00
P _{dh} T _j = +7°C	25.3 kW	25.49 kW
COP T _j = +7°C	5.02	3.93
C _{dh} T _j = +7 °C	1.00	1.00
P _{dh} T _j = 12°C	25.32 kW	25.49 kW
COP T _j = 12°C	5.23	4.59
C _{dh} T _j = +12 °C	1.00	1.00
P _{dh} T _j = T _{biv}	39 kW	39.00 kW
COP T _j = T _{biv}	4.46	3.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	39 kW	39 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.46	3.17
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	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 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}

10314 kWh

12530 kWh
