

Subtype Buderus Logatherm WPLS8.2

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 WPLS8.2
Registration number	011-1W0142
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.6 kg
Certification Date	18.07.2017

Model Buderus Logatherm WPLS8.2 RE

Model name	Buderus Logatherm WPLS8.2 RE
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/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	3.23 kW	7.96 kW
El input	0.72 kW	3.60 kW
COP	4.50	2.21

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	131 %
Prated	7.43 kW	5.20 kW
SCOP	4.74	3.35
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-9 °C
Pdh Tj = -7°C	6.63 kW	4.55 kW
COP Tj = -7°C	3.08	2.00
Cdh Tj = -7 °C	0.994	0.994
Pdh Tj = +2°C	4.00 kW	3.94 kW
COP Tj = +2°C	4.75	3.41

Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	3.66 kW	3.46 kW
COP Tj = +7°C	5.96	4.41
Cdh Tj = +7 °C	0.979	0.984
Pdh Tj = 12°C	3.99 kW	4.14 kW
COP Tj = 12°C	6.82	5.84
Cdh Tj = +12 °C	0.978	0.982
Pdh Tj = Tbiv	7.44 kW	5.02 kW
COP Tj = Tbiv	2.51	1.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	5.20 kW
Annual energy consumption Qhe	3236 kWh	3206 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	155 %	120 %
Prated	6.60 kW	6.60 kW
SCOP	3.94	3.08
Tbiv	-18 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	3.86 kW	4.41 kW
COP Tj = -7°C	3.22	2.52
Cdh Tj = -7 °C	0.989	0.993
Pdh Tj = +2°C	3.16 kW	2.99 kW
COP Tj = +2°C	5.06	3.90
Cdh Tj = +2 °C	0.979	0.983
Pdh Tj = +7°C	3.68 kW	3.52 kW
COP Tj = +7°C	5.84	4.81
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.14 kW	4.13 kW

COP Tj = 12 °C	7.09	6.02
Cdh Tj = +12 °C	0.978	0.981
Pdh Tj = Tbiv	5.93 kW	5.72 kW
COP Tj = Tbiv	2.15	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.93 kW	5.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.15	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.60 kW	6.60 kW
Annual energy consumption Qhe	4124 kWh	5285 kWh
Pdh Tj = -15 °C (if TOL	5.45	5.32
COP Tj = -15 °C (if TOL	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	225 %	160 %
Prated	7.20 kW	6.10 kW
SCOP	5.70	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2 °C	7.28 kW	6.08 kW
COP Tj = +2 °C	3.33	1.94
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7 °C	4.72 kW	4.00 kW
COP Tj = +7 °C	5.44	3.63
Cdh Tj = +7 °C	0.985	0.988
Pdh Tj = 12 °C	4.01 kW	3.91 kW
COP Tj = 12 °C	6.75	5.28
Cdh Tj = +12 °C	0.979	0.983
Pdh Tj = Tbiv	7.28 kW	6.08 kW
COP Tj = Tbiv	3.33	1.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.28 kW	6.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.33	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1686 kWh	2003 kWh

Model Buderus Logatherm WPLS8.2 RB

Model name	Buderus Logatherm WPLS8.2 RB
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Outdoor Air/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	3.23 kW	7.96 kW
El input	0.72 kW	3.60 kW
COP	4.50	2.21

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	131 %
Prated	7.43 kW	5.20 kW
SCOP	4.74	3.35
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-9 °C
Pdh Tj = -7°C	6.63 kW	4.55 kW
COP Tj = -7°C	3.08	2.00
Cdh Tj = -7 °C	0.994	0.994
Pdh Tj = +2°C	4.00 kW	3.94 kW
COP Tj = +2°C	4.75	3.41

Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	3.66 kW	3.46 kW
COP Tj = +7°C	5.96	4.41
Cdh Tj = +7 °C	0.979	0.984
Pdh Tj = 12°C	3.99 kW	4.14 kW
COP Tj = 12°C	6.82	5.84
Cdh Tj = +12 °C	0.978	0.982
Pdh Tj = Tbiv	7.44 kW	5.02 kW
COP Tj = Tbiv	2.51	1.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3236 kWh	3206 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	155 %	120 %
Prated	6.60 kW	6.60 kW
SCOP	3.94	3.08
Tbiv	-18 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	3.86 kW	4.41 kW
COP Tj = -7°C	3.22	2.52
Cdh Tj = -7 °C	0.989	0.993
Pdh Tj = +2°C	3.16 kW	2.99 kW
COP Tj = +2°C	5.06	3.90
Cdh Tj = +2 °C	0.979	0.983
Pdh Tj = +7°C	3.68 kW	3.52 kW
COP Tj = +7°C	5.84	4.81
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.14 kW	4.13 kW

COP Tj = 12°C	7.09	6.02
Cdh Tj = +12 °C	0.978	0.981
Pdh Tj = Tbiv	5.93 kW	5.72 kW
COP Tj = Tbiv	2.15	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.93 kW	5.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.15	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4124 kWh	5285 kWh
Pdh Tj = -15°C (if TOL	5.45	5.32
COP Tj = -15°C (if TOL	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	225 %	160 %
Prated	7.20 kW	6.10 kW
SCOP	5.70	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.28 kW	6.08 kW
COP Tj = +2°C	3.33	1.94
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	4.72 kW	4.00 kW
COP Tj = +7°C	5.44	3.63
Cdh Tj = +7 °C	0.985	0.988
Pdh Tj = 12°C	4.01 kW	3.91 kW
COP Tj = 12°C	6.75	5.28
Cdh Tj = +12 °C	0.979	0.983
Pdh Tj = Tbiv	7.28 kW	6.08 kW
COP Tj = Tbiv	3.33	1.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.28 kW	6.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.33	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1686 kWh	2003 kWh

Model Buderus Logatherm WPLS8.2 RT

Model name	Buderus Logatherm WPLS8.2 RT
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	99 %
COP	2.30
Heating up time	02:07 h:min
Standby power input	65.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	257 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	77 %
COP	1.73
Heating up time	02:49 h:min
Standby power input	118.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	257 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	114 %
COP	2.66
Heating up time	01:48 h:min
Standby power input	54.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	257 l

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	3.23 kW	7.96 kW
El input	0.72 kW	3.60 kW
COP	4.50	2.21

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	131 %
Prated	7.43 kW	5.20 kW
SCOP	4.74	3.35
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-9 °C
Pdh Tj = -7°C	6.63 kW	4.55 kW
COP Tj = -7°C	3.08	2.00
Cdh Tj = -7 °C	0.994	0.994
Pdh Tj = +2°C	4.00 kW	3.94 kW
COP Tj = +2°C	4.75	3.41
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	3.66 kW	3.46 kW
COP Tj = +7°C	5.96	4.41
Cdh Tj = +7 °C	0.979	0.984
Pdh Tj = 12°C	3.99 kW	4.14 kW
COP Tj = 12°C	6.82	5.84
Cdh Tj = +12 °C	0.978	0.982
Pdh Tj = Tbiv	7.44 kW	5.02 kW
COP Tj = Tbiv	2.51	1.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W

PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	5.20 kW
Annual energy consumption Q _{he}	3236 kWh	3206 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	155 %	120 %
Prated	6.60 kW	6.60 kW
SCOP	3.94	3.08
T _{biv}	-18 °C	-17 °C
TOL	-18 °C	-17 °C
P _{dh} T _j = -7°C	3.86 kW	4.41 kW
COP T _j = -7°C	3.22	2.52
C _{dh} T _j = -7 °C	0.989	0.993
P _{dh} T _j = +2°C	3.16 kW	2.99 kW
COP T _j = +2°C	5.06	3.90
C _{dh} T _j = +2 °C	0.979	0.996
P _{dh} T _j = +7°C	3.68 kW	3.52 kW
COP T _j = +7°C	5.84	4.81
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.14 kW	4.13 kW
COP T _j = 12°C	7.09	6.02
C _{dh} T _j = +12 °C	0.978	0.981
P _{dh} T _j = T _{biv}	5.93 kW	5.72 kW
COP T _j = T _{biv}	2.15	1.73
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.93 kW	5.72 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.15	1.73
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	57 °C	57 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.60 kW	6.60 kW
Annual energy consumption Q _{he}	4124 kWh	5285 kWh

Pdh Tj = -15°C (if TOL	5.45	1.90
COP Tj = -15°C (if TOL	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	225 %	160 %
Prated	7.20 kW	6.10 kW
SCOP	5.70	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.28 kW	6.08 kW
COP Tj = +2°C	3.33	1.94
Cdh Tj = +2 °C	0.994	
Pdh Tj = +7°C	4.72 kW	4.00 kW
COP Tj = +7°C	5.44	3.63
Cdh Tj = +7 °C	0.985	0.988
Pdh Tj = 12°C	4.01 kW	3.91 kW
COP Tj = 12°C	6.75	5.28
Cdh Tj = +12 °C	0.979	0.983
Pdh Tj = Tbiv	7.28 kW	6.08 kW
COP Tj = Tbiv	3.33	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.28 kW	6.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.33	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1686 kWh	2003 kWh

Model Buderus Logatherm WPLS8.2 RTS

Model name	Buderus Logatherm WPLS8.2 RTS
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	91 %
COP	2.11
Heating up time	02:04 h:min
Standby power input	69.7 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	236 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	75 %
COP	1.69
Heating up time	02:00 h:min
Standby power input	120.4 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	252 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	101 %
COP	2.34
Heating up time	01:46 h:min
Standby power input	66.7 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	252 l

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	3.23 kW	7.96 kW
El input	0.72 kW	3.60 kW
COP	4.50	2.21

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	131 %
Prated	7.43 kW	5.20 kW
SCOP	4.74	3.35
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-9 °C
Pdh Tj = -7°C	6.63 kW	4.55 kW
COP Tj = -7°C	3.08	2.00
Cdh Tj = -7 °C	0.994	0.994
Pdh Tj = +2°C	4.00 kW	3.94 kW
COP Tj = +2°C	4.75	3.41
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	3.66 kW	3.46 kW
COP Tj = +7°C	5.96	4.41
Cdh Tj = +7 °C	0.979	0.984
Pdh Tj = 12°C	3.99 kW	4.14 kW
COP Tj = 12°C	6.82	5.84
Cdh Tj = +12 °C	0.978	0.982
Pdh Tj = Tbiv	7.44 kW	5.02 kW
COP Tj = Tbiv	2.51	1.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W

PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	5.20 kW
Annual energy consumption Q _{he}	3236 kWh	3206 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	155 %	120 %
Prated	6.60 kW	6.60 kW
SCOP	3.94	3.08
T _{biv}	-18 °C	-17 °C
TOL	-18 °C	-17 °C
P _{dh} T _j = -7°C	3.86 kW	4.41 kW
COP T _j = -7°C	3.22	2.52
C _{dh} T _j = -7 °C	0.989	0.993
P _{dh} T _j = +2°C	3.16 kW	2.99 kW
COP T _j = +2°C	5.06	3.90
C _{dh} T _j = +2 °C	0.979	0.983
P _{dh} T _j = +7°C	3.68 kW	3.52 kW
COP T _j = +7°C	5.84	4.81
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.14 kW	4.13 kW
COP T _j = 12°C	7.09	6.02
C _{dh} T _j = +12 °C	0.978	0.981
P _{dh} T _j = T _{biv}	5.93 kW	5.72 kW
COP T _j = T _{biv}	2.15	1.73
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.93 kW	5.72 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.15	1.73
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	57 °C	57 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.60 kW	6.60 kW
Annual energy consumption Q _{he}	4124 kWh	5285 kWh

Pdh Tj = -15°C (if TOL	5.45	5.32
COP Tj = -15°C (if TOL	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	225 %	160 %
Prated	7.20 kW	6.10 kW
SCOP	5.70	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.28 kW	6.08 kW
COP Tj = +2°C	3.33	1.94
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	4.72 kW	4.00 kW
COP Tj = +7°C	5.44	3.63
Cdh Tj = +7 °C	0.985	0.988
Pdh Tj = 12°C	4.01 kW	3.91 kW
COP Tj = 12°C	6.75	5.28
Cdh Tj = +12 °C	0.979	0.983
Pdh Tj = Tbiv	7.28 kW	6.08 kW
COP Tj = Tbiv	3.33	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.28 kW	6.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.33	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1686 kWh	2003 kWh