Login

Summary of	Buderus Logatherm WPLS8.2	Reg. No.	011-1W0142
Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Buderus Logatherm WPLS8.2		
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

Configure model	
Model name	Buderus Logatherm WPLS8.2 RE
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

EN 12102-1

	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

	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

Colder Climate

EN 12102-1		
	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

	Low temperature	**Medium temperature**
η_s	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<-20°C)	5.45	5.32
COP Tj = -15°C (if TOL<-20°C)	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

Average Climate

EN 12102-1		
	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

	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

Model: Buderus Logatherm WPLS8.2 RB

Configure model	
Model name	Buderus Logatherm WPLS8.2 RB
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

EN 12102-1		
	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		
	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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1686 kWh	2003 kWh

Colder Climate

EN 12102-1		
	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

	Low temperature	**Medium temperature**
η_s	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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4124 kWh	5285 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.45	5.32
COP Tj = -15°C (if TOL<-20°C)	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

Average Climate

EN 12102-1		
	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

	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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3236 kWh	3206 kWh

Model: Buderus Logatherm WPLS8.2 RT

Configure model	
Model name	Buderus Logatherm WPLS8.2 RT
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

EN 12102-1		
	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		
	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

Colder Climate

EN 12102-1		
	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

	Low temperature	**Medium temperature**
η_s	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	0.996
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<-20°C)	5.45	1.90
COP Tj = -15°C (if TOL<-20°C)	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

Average Climate

EN 12102-1		
	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

	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

Model: Buderus Logatherm WPLS8.2 RTS

Configure model	
Model name	Buderus Logatherm WPLS8.2 RTS
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

EN 12102-1		
	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		
	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

Colder Climate

EN 12102-1		
	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

	Low temperature	**Medium temperature**
η_s	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<-20°C)	5.45	5.32
COP Tj = -15°C (if TOL<-20°C)	2.65	1.90
Cdh Tj = -15 °C	0.994	0.995

Average Climate

EN 12102-1		
	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

	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	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