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Login

Summary of	Buderus Logatherm WPLS8.2	Reg. No.	011-1W0142	
Certificate Holder	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	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	
СОР	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	

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	
187 %	131 %	
7.43 kW	5.20 kW	
4.74	3.35	
-10 °C	-9 °C	
-10 °C	-9 °C	
6.63 kW	4.55 kW	
3.08	2.00	
0.994	0.994	
4.00 kW	3.94 kW	
4.75	3.41	
0.985	0.989	
3.66 kW	3.46 kW	
5.96	4.41	
0.979	0.984	
	Low temperature 187 % 7.43 kW 4.74 -10 °C -10 °C 6.63 kW 3.08 0.994 4.00 kW 4.75 0.985 3.66 kW 5.96	





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
РТО	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

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
РТО	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

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
$COP Tj = +7^{\circ}C$	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



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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
РТО	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

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		
СОР	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	

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





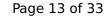
	1	
Pdh Tj = 12°C	3.99 kW	4.14 kW
COP Tj = 12°C	6.82	5.84
Cdh Tj = +12 °C	0.978	0.982
Pdh Tj = Tbiv	7.44 kW	5.02 kW
COP Tj = Tbiv	2.51	1.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	57 °C	57 °C
Poff	13 W	13 W
РТО	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

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
РТО	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
	1	1

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)

Low temperature 225 %	Medium temperature
225 %	160 %
7.20 kW	6.10 kW
5.70	4.07
2 °C	2 °C
2 °C	2 °C
7.28 kW	6.08 kW
3.33	1.94
0.994	0.996
4.72 kW	4.00 kW
5.44	3.63
0.985	0.988
4.01 kW	3.91 kW
6.75	5.28
0.979	0.983
	5.70 2 °C 2 °C 7.28 kW 3.33 0.994 4.72 kW 5.44 0.985 4.01 kW 6.75



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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

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
СОР	4.50	2.21

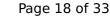
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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	
187 %	131 %	
7.43 kW	5.20 kW	
4.74	3.35	
-10 °C	-9 °C	
-10 °C	-9 °C	
6.63 kW	4.55 kW	
3.08	2.00	
0.994	0.994	
4.00 kW	3.94 kW	
4.75	3.41	
0.985	0.989	
3.66 kW	3.46 kW	
5.96	4.41	
0.979	0.984	
	Low temperature 187 % 7.43 kW 4.74 -10 °C -10 °C 6.63 kW 3.08 0.994 4.00 kW 4.75 0.985 3.66 kW 5.96	





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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
РТО	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

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 = $+7^{\circ}$ 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

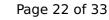
Warmer Climate



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)

CEN heat pump KEYMARK

EN 14825			
Low temperature Medium tempera			
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	
$COP Tj = +7^{\circ}C$	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
РТО	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	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 I

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	77 %
СОР	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 I

Warmer Climate



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EN 16147	
Declared load profile	L
Efficiency ηDHW	114 %
СОР	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 I

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
СОР	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

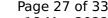
Average Climate





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	
187 %	131 %	
7.43 kW	5.20 kW	
4.74	3.35	
-10 °C	-9 °C	
-10 °C	-9 °C	
6.63 kW	4.55 kW	
3.08	2.00	
0.994	0.994	
4.00 kW	3.94 kW	
4.75	3.41	
0.985	0.989	
3.66 kW	3.46 kW	
5.96	4.41	
0.979	0.984	
	Low temperature 187 % 7.43 kW 4.74 -10 °C -10 °C 6.63 kW 3.08 0.994 4.00 kW 4.75 0.985 3.66 kW 5.96	





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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
РТО	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

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)

CEN heat pump KEYMARK

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





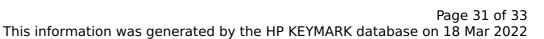
Pdh Tj = 12°C	4.14 kW	4.13 kW
COP Tj = 12°C	7.09	6.02
Cdh Tj = +12 °C	0.978	0.981
Pdh Tj = Tbiv	5.93 kW	5.72 kW
COP Tj = Tbiv	2.15	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.93 kW	5.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.15	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	57 °C	57 °C
Poff	13 W	13 W
РТО	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
	1	

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
$COP Tj = +2^{\circ}C$	3.33	1.94
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = $+7^{\circ}$ C	4.72 kW	4.00 kW
$COP Tj = +7^{\circ}C$	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
РТО	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

Domestic Hot Water (DHW)

Average Climate

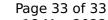


EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.11	
Heating up time	02:04 h:min	
Standby power input	69.7 W	
Reference hot water temperature	51.3 °C	
Mixed water at 40°C	236	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	75 %	
СОР	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	

Warmer Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	101 %	
СОР	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	