

Summary of	Buderus Logatherm WLW196i-14 AR and IR	Reg. No.	011-1W0131	
Certificate Holder				
Name	Bosch Thermotechnik GmbH (Buderus)	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32 Zip 35576		35576	
City	Wetzlar	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Name of testing laboratory	RISE Research Institutes of Sweden AB			
Subtype title	Buderus Logatherm WLW196i-14 AR and IR			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	4 kg			
Certification Date	18.07.2017			

Model: Buderus Logatherm WLW196i-14 ARE

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.63 kW	4.32 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.64	
Indoor water flow rate	0.26 m³/h	0.13 m³/h	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW





COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was get	ierated by the Hi KETM	ARK database on 17 Dec 2020
η_{s}	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.07 kW
$COP Tj = +7^{\circ}C$	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
	•	





PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW



$COP Tj = +7^{\circ}C$	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Model: Buderus Logatherm WLW196i-14 ARB

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.63 kW	4.32 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.64	
Indoor water flow rate	0.26 m³/h	0.13 m³/h	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW



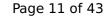


COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature





η_{S}	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = +7°C	5.34 kW	5.07 kW
$COP Tj = +7^{\circ}C$	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W





PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW



	<u> </u>	
$COP Tj = +7^{\circ}C$	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh



Model: Buderus Logatherm WLW196i-14 ART

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.63 kW	4.32 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.64	
Indoor water flow rate	0.26 m³/h	0.13 m³/h	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW



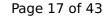


COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	26 dB(A)	26 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature





η_{s}	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
$COP Tj = -7^{\circ}C$	3.71	2.68
Pdh Tj = $+2$ °C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.07 kW
$COPTj = +7^{\circ}C$	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W



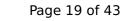


PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW





$COP Tj = +7^{\circ}C$	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Domestic Hot Water (DHW)

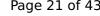


EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
СОР	2.12
Heating up time	02:24 h:min
Standby power input	64.3 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	269 I

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	78 %
СОР	1.82
Heating up time	02:48 h:min
Standby power input	80.7 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	272

Warmer Climate





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EN 16147	
Declared load profile	L
Efficiency ηDHW	107 %
СОР	2.49
Heating up time	01:57 h:min
Standby power input	58.5 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	266 I

Model: Buderus Logatherm WLW196i-14 ARTS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.63 kW	4.32 kW
El input	1.16 kW	1.63 kW
СОР	4.87	2.64
Indoor water flow rate	0.26 m³/h	0.13 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
Low temperature	Medium temperature	
191 %	142 %	
12.00 kW	10.00 kW	
4.85	3.61	
-10 °C	-10 °C	
-10 °C	-10 °C	
11.36 kW	9.51 kW	
2.87	2.25	
6.84 kW	5.60 kW	
4.84	3.64	
4.21 kW	5.07 kW	
6.41	4.49	
3.03 kW	6.01 kW	
7.31	5.79	
12.26 kW	10.11 kW	
	Low temperature 191 % 12.00 kW 4.85 -10 °C -10 °C 11.36 kW 2.87 6.84 kW 4.84 4.21 kW 6.41 3.03 kW 7.31	



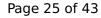


COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

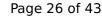
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was generated by the HP KEYMARK database on 17 Dec 202		
η_s	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
$COP Tj = -7^{\circ}C$	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.07 kW
$COPTj = +7^{\circ}C$	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	17 W	17 W
PSB	24 W	24 W



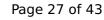


PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW





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5.37	3.81
4.16 kW	5.99 kW
8.00	5.61
14.59 kW	12.49 kW
2.85	2.18
14.59 kW	12.49 kW
2.85	2.18
60 °C	60 °C
24 W	24 W
17 W	17 W
24 W	24 W
11 W	11 W
Electric	Electric
0 kW	0 kW
3097 kWh	3833 kWh
	4.16 kW 8.00 14.59 kW 2.85 14.59 kW 2.85 60 °C 24 W 17 W 24 W 11 W Electric 0 kW

Domestic Hot Water (DHW)

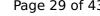


EN 16147	
Declared load profile	L
Efficiency ηDHW	89 %
СОР	2.08
Heating up time	02:27 h:min
Standby power input	67.1 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	259 I

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	77 %
СОР	1.78
Heating up time	02:51 h:min
Standby power input	91.7 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	258 I

Warmer Climate





 $$\operatorname{\textit{Page}}\xspace$ 29 of 43 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.30
Heating up time	01:59 h:min
Standby power input	61.0 W
Reference hot water temperature	51.4 °C
Mixed water at 40°C	252 l

Model: Buderus Logatherm WLW196i-14 IRE

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
СОР	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86



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Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
РТО	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Model: Buderus Logatherm WLW196i-14 IRB

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
СОР	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86



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Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
РТО	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Model: Buderus Logatherm WLW196i-14 IRT

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.80 kW	4.22 kW	
El input	1.00 kW	1.64 kW	
СОР	4.82	2.58	
Indoor water flow rate	1.05 m³/h	0.46 m³/h	

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



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	49 dB(A)	49 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86

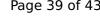


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This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
РТО	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	89 %	
СОР	2.19	
Heating up time	02:18 h:min	
Standby power input	67.0 W	
Reference hot water temperature	52.8 °C	
Mixed water at 40°C	310	

Model: Buderus Logatherm WLW196i-14 IRTS

General Data	
Power supply 3x400V 50Hz	

Heating

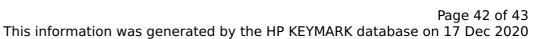
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.80 kW	4.22 kW	
El input	1.00 kW	1.64 kW	
СОР	4.82	2.58	
Indoor water flow rate	1.05 m³/h	0.46 m³/h	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

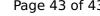
EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86



	go	
Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
РТО	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





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EN 16147	
Declared load profile	L
Efficiency ηDHW	89 %
СОР	2.19
Heating up time	02:18 h:min
Standby power input	67.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	310