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Login

Summary of	Buderus Logatherm WLW196i-14 AR and IR	Reg. No.	011-1W0131	
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 WLW196i-14 AR and IR			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4 kg			
Certification Date	18.07.2017			
Testing basis	HP KEYMARK certification scheme rules rev. 8			



Model: Buderus Logatherm WLW196i-14 ARE

Configure model		
Model name	Buderus Logatherm WLW196i-14 ARE	
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	5.63 kW	4.48 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.75	

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}	242 %	170 %
Prated	14.30 kW	12.50 kW
SCOP	6.13	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	14.59 kW	12.49 kW
$COPTj = +2^{\circ}C$	2.85	2.18
Pdh Tj = $+7^{\circ}$ C	8.92 kW	8.08 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	14.59 kW	12.49 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3115 kWh	3852 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





This information was gener	ated by the HI KLIMA	NK database on 22 Juli 2022
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
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.10 kW





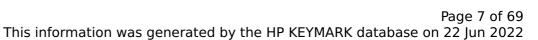
This information was genera	ted by the HP KEYMA	RK database on 22 Jun 2022

Annual energy consumption Qhe	6000 kWh	7117 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.92	1.96
COP Tj = -15°C (if TOL $<$ -20°C)	2.66	1.96

Average 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}	191 %	141 %
Prated	12.00 kW	10.00 kW
SCOP	4.84	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





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Pdh Tj = $+7^{\circ}$ C	4.21 kW	5.07 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5117 kWh	5721 kWh



Model: Buderus Logatherm WLW196i-14 ARB

Configure model		
Model name Buderus Logatherm WLW196i-14 ARB		
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

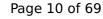
EN 14511-2			
Low temperature Medium temperature			
Heat output	5.63 kW	4.48 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.75	

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}	242 %	170 %
Prated	14.30 kW	12.50 kW
SCOP	6.13	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	14.59 kW	12.49 kW
$COPTj = +2^{\circ}C$	2.85	2.18
Pdh Tj = $+7^{\circ}$ C	8.92 kW	8.08 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	14.59 kW	12.49 kW



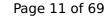


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3115 kWh	3852 kWh

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	
161 %	123 %	
10.00 kW	9.10 kW	
4.11	3.15	
	Low temperature 161 % 10.00 kW	





This information was genera	acca by the fit RETIN	THE database on 22 july 2022
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°C	5.34 kW	5.07 kW
COP Tj = +7°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 or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW





Annual energy consumption Qhe	6000 kWh	7117 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.92	1.96
COP Tj = -15°C (if TOL $<$ -20°C)	2.66	1.96

Average 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		
	Medium temperature	
η_{s}	191 %	141 %
Prated	12.00 kW	10.00 kW
SCOP	4.84	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
$COP Tj = +2^{\circ}C$	4.84	3.64



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Pdh Tj = $+7^{\circ}$ C	4.21 kW	5.07 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5117 kWh	5721 kWh

Model: Buderus Logatherm WLW196i-14 ART190

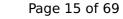
Configure model		
Model name	Buderus Logatherm WLW196i-14 ART190	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	5.63 kW	4.48 kW	
El input	1.16 kW	1.63 kW	
СОР	4.87	2.75	

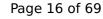
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





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}	242 %	170 %		
Prated	14.30 kW	12.50 kW		
SCOP	6.13	4.34		
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 = $+7^{\circ}$ C	8.92 kW	8.08 kW		
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	14.59 kW	12.49 kW		



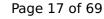


2.18
60.06
60 °C
24 W
41 W
24 W
11 W
Electricity
0.00 kW
3852 kWh

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
161 %	123 %
10.00 kW	9.10 kW
4.11	3.15
	Low temperature 161 % 10.00 kW





This information was general	ated by the HI KETMA	NK database on 22 Juli 2022
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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.10 kW



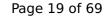


Annual energy consumption Qhe	6000 kWh	7117 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.92	1.96
COP Tj = -15°C (if TOL $<$ -20°C)	2.66	1.96

Average 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}	191 %	141 %
Prated	12.00 kW	10.00 kW
SCOP	4.84	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
$COP Tj = +2^{\circ}C$	4.84	3.64





This information was general	aced by the III RETIN	The database on 22 july 202.
Pdh Tj = $+7$ °C	4.21 kW	5.07 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5117 kWh	5721 kWh

Domestic Hot Water (DHW)

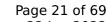


EN 16147	
Declared load profile	L
Efficiency ηDHW	107 %
СОР	2.49
Heating up time	01:57 h:min
Standby power input	58.5 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	266 I

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

Average Climate





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



Model: Buderus Logatherm WLW196i-14 ARTS185

Configure model		
Model name Buderus Logatherm WLW196i-14 ARTS185		
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	5.63 kW	4.48 kW
El input	1.16 kW	1.63 kW
СОР	4.87	2.75

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	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	242 %	170 %
Prated	14.30 kW	12.50 kW
SCOP	6.13	4.34
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 = $+7^{\circ}$ C	8.92 kW	8.08 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	14.59 kW	12.49 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3115 kWh	3852 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





This information was general	ated by the HI KETMA	NK database on 22 Juli 2022
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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.10 kW





Annual energy consumption Qhe	6000 kWh	7117 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.92	1.96
COP Tj = -15°C (if TOL $<$ -20°C)	2.66	1.96

Average 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}	191 %	141 %
Prated	12.00 kW	10.00 kW
SCOP	4.84	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





This information was generated by the Till KETHAKK database on 22 Juli 2022			
Pdh Tj = $+7$ °C	4.21 kW	5.07 kW	
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.11 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.90	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00	
WTOL	60 °C	60 °C	
Poff	24 W	24 W	
РТО	41 W	41 W	
PSB	24 W	24 W	
PCK	11 W	11 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW	
Annual energy consumption Qhe	5117 kWh	5721 kWh	

Domestic Hot Water (DHW)

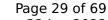


EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.30	
Heating up time	01:59 h:min	
Standby power input	61.0 W	
Reference hot water temperature	51.4 °C	
Mixed water at 40°C	252 I	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	77 %	
СОР	1.78	
Heating up time	02:51 h:min	
Standby power input	92.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	260 I	

Average Climate





EN 16147	
Declared load profile	L
Efficiency ηDHW	89 %
СОР	2.08
Heating up time	02:27 h:min
Standby power input	67.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	259 I

Model: Buderus Logatherm WLW196i-14 IRE

Configure model		
Model name	Buderus Logatherm WLW196i-14 IRE	
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

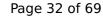
EN 14511-2		
Low temperature Medium temperature		
Heat output	5.08 kW	4.10 kW
El input	1.04 kW	1.63 kW
СОР	4.90	2.51

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	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	242 %	166 %
Prated	13.44 kW	12.41 kW
SCOP	6.12	4.23
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.44 kW	12.41 kW
$COPTj = +2^{\circ}C$	2.86	2.21
Pdh Tj = $+7^{\circ}$ C	8.54 kW	8.58 kW
$COPTj = +7^{\circ}C$	5.31	3.64
Pdh Tj = 12°C	4.07 kW	5.86 kW
COP Tj = 12°C	7.94	5.48
Pdh Tj = Tbiv	13.44 kW	12.41 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.44 kW	12.41 kW



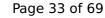


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.21
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2931 kWh	3916 kWh

Colder Climate

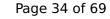
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
Low temperature	Medium temperature	
170 %	123 %	
10.00 kW	9.40 kW	
4.33	3.16	
	Low temperature 170 % 10.00 kW	





This information was genera	aced by the Hi KETHA	TIN database on 22 jun 2022
Tbiv	-17 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	6.09 kW	5.63 kW
$COP Tj = -7^{\circ}C$	3.68	2.71
Pdh Tj = $+2$ °C	3.66 kW	4.40 kW
COP Tj = +2°C	5.48	3.89
Pdh Tj = +7°C	2.70 kW	5.06 kW
COP Tj = +7°C	6.48	4.75
Pdh Tj = 12°C	6.23 kW	5.98 kW
COP Tj = 12°C	7.42	5.99
Pdh Tj = Tbiv	8.29 kW	8.23 kW
COP Tj = Tbiv	2.52	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.64 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.40 kW
	1	



2.01



This information was generated by the HP KEYMARK database on 22 Jun 2022			
Annual energy consumption Qhe	5697 kWh	7343 kWh	
Pdh Tj = -15 °C (if TOL< -20 °C)	8.01	2.01	

2.72

Average Climate

COP Tj = -15°C (if TOL<-20°C)

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	194 %	140 %
Prated	12.13 kW	10.00 kW
SCOP	4.92	3.56
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.89 kW	8.44 kW
COP Tj = -7 °C	2.98	2.25
Pdh Tj = $+2$ °C	6.78 kW	5.45 kW
$COPTj = +2^{\circ}C$	4.91	3.56



		·
Pdh Tj = +7°C	4.05 kW	4.98 kW
$COP Tj = +7^{\circ}C$	6.33	4.44
Pdh Tj = 12°C	3.00 kW	5.93 kW
COP Tj = 12°C	7.60	5.76
Pdh Tj = Tbiv	12.13 kW	10.00 kW
COP Tj = Tbiv	2.56	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.13 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5090 kWh	5794 kWh



Model: Buderus Logatherm WLW196i-14 IRB

Configure model			
Model name	Buderus Logatherm WLW196i-14 IRB		
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	5.08 kW	4.10 kW	
El input	1.04 kW	1.63 kW	
СОР	4.90	2.51	

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	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	242 %	166 %
Prated	13.44 kW	12.41 kW
SCOP	6.12	4.23
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.44 kW	12.41 kW
$COPTj = +2^{\circ}C$	2.86	2.21
Pdh Tj = $+7^{\circ}$ C	8.54 kW	8.58 kW
$COPTj = +7^{\circ}C$	5.31	3.64
Pdh Tj = 12°C	4.07 kW	5.86 kW
COP Tj = 12°C	7.94	5.48
Pdh Tj = Tbiv	13.44 kW	12.41 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.44 kW	12.41 kW



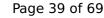


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.21
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	23 W	23 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2931 kWh	3916 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
Low temperature	Medium temperature	
170 %	123 %	
10.00 kW	9.40 kW	
4.33	3.16	
	Low temperature 170 % 10.00 kW	





		THE database on 22 jun 2022
Tbiv	-17 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	6.09 kW	5.63 kW
$COP Tj = -7^{\circ}C$	3.68	2.71
Pdh Tj = $+2$ °C	3.66 kW	4.40 kW
COP Tj = +2°C	5.48	3.89
Pdh Tj = $+7^{\circ}$ C	2.70 kW	5.06 kW
$COP Tj = +7^{\circ}C$	6.48	4.75
Pdh Tj = 12°C	6.23 kW	5.98 kW
COP Tj = 12°C	7.42	5.99
Pdh Tj = Tbiv	8.29 kW	8.23 kW
COP Tj = Tbiv	2.52	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.64 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW





This information was generated by the HP KEYMARK database on 22 Jun 2022		

Annual energy consumption Qhe	5697 kWh	7343 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.01	2.01
COP Tj = -15°C (if TOL $<$ -20°C)	2.72	2.01

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	194 %	140 %
Prated	12.13 kW	10.00 kW
SCOP	4.92	3.56
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.89 kW	8.44 kW
COP Tj = -7°C	2.98	2.25
Pdh Tj = +2°C	6.78 kW	5.45 kW
COP Tj = +2°C	4.91	3.56



	-	
Pdh Tj = $+7$ °C	4.05 kW	4.98 kW
$COP Tj = +7^{\circ}C$	6.33	4.44
Pdh Tj = 12°C	3.00 kW	5.93 kW
COP Tj = 12°C	7.60	5.76
Pdh Tj = Tbiv	12.13 kW	10.00 kW
COP Tj = Tbiv	2.56	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.13 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5090 kWh	5794 kWh

Model: Buderus Logatherm WLW196i-14 IRT190

Configure model		
Model name	Buderus Logatherm WLW196i-14 IRT190	
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	5.08 kW	4.10 kW	
El input	1.04 kW	1.63 kW	
СОР	4.90	2.51	

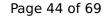
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	242 %	166 %
Prated	13.44 kW	12.41 kW
SCOP	6.12	4.23
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	13.44 kW	12.41 kW
$COPTj = +2^{\circ}C$	2.86	2.21
Pdh Tj = $+7$ °C	8.54 kW	8.58 kW
$COPTj = +7^{\circ}C$	5.31	3.64
Pdh Tj = 12°C	4.07 kW	5.86 kW
COP Tj = 12°C	7.94	5.48
Pdh Tj = Tbiv	13.44 kW	12.41 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.44 kW	12.41 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.21
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2931 kWh	3916 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	51 dB(A)	51 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
Low temperature	Medium temperature	
170 %	123 %	
10.00 kW	9.40 kW	
4.33	3.16	
	Low temperature 170 % 10.00 kW	





ine memanen nas gener		int database on 22 jan 2022
Tbiv	-17 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	6.09 kW	5.63 kW
$COPTj = -7^{\circ}C$	3.68	2.71
Pdh Tj = $+2$ °C	3.66 kW	4.40 kW
COP Tj = +2°C	5.48	3.89
Pdh Tj = $+7^{\circ}$ C	2.70 kW	5.06 kW
COP Tj = +7°C	6.48	4.75
Pdh Tj = 12°C	6.23 kW	5.98 kW
COP Tj = 12°C	7.42	5.99
Pdh Tj = Tbiv	8.29 kW	8.23 kW
COP Tj = Tbiv	2.52	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.64 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.40 kW





Annual energy consumption Qhe	5697 kWh	7343 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.01	2.01
COP Tj = -15°C (if TOL $<$ -20°C)	2.72	2.01

Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	51 dB(A)	51 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	194 %	140 %
Prated	12.13 kW	10.00 kW
SCOP	4.92	3.56
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.89 kW	8.44 kW
COP Tj = -7°C	2.98	2.25
Pdh Tj = +2°C	6.78 kW	5.45 kW
COP Tj = +2°C	4.91	3.56





This information was generated by the Till KETHAKK database on 22 Juli 2022			
Pdh Tj = $+7$ °C	4.05 kW	4.98 kW	
$COP Tj = +7^{\circ}C$	6.33	4.44	
Pdh Tj = 12°C	3.00 kW	5.93 kW	
COP Tj = 12°C	7.60	5.76	
Pdh Tj = Tbiv	12.13 kW	10.00 kW	
COP Tj = Tbiv	2.56	1.88	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.13 kW	10.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.88	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00	
WTOL	60 °C	60 °C	
Poff	22 W	22 W	
РТО	23 W	23 W	
PSB	22 W	22 W	
PCK	o w	0 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW	
Annual energy consumption Qhe	5090 kWh	5794 kWh	

Domestic Hot Water (DHW)

Warmer Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	107 %	
СОР	2.49	
Heating up time	01:57 h:min	
Standby power input	59.0 W	
Reference hot water temperature	52.8 °C	
Mixed water at 40°C	266 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	81.0 W	
Reference hot water temperature	53.5 °C	
Mixed water at 40°C	272	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.12	
Heating up time	02:24 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	269 I	



Model: Buderus Logatherm WLW196i-14 IRTS185

Configure model		
Model name Buderus Logatherm WLW196i-14 IRTS185		
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	5.08 kW	4.10 kW
El input	1.04 kW	1.63 kW
СОР	4.90	2.51

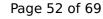
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	242 %	166 %
Prated	13.44 kW	12.41 kW
SCOP	6.12	4.23
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.44 kW	12.41 kW
COP Tj = +2°C	2.86	2.21
Pdh Tj = +7°C	8.54 kW	8.58 kW
$COP Tj = +7^{\circ}C$	5.31	3.64
Pdh Tj = 12°C	4.07 kW	5.86 kW
COP Tj = 12°C	7.94	5.48
Pdh Tj = Tbiv	13.44 kW	12.41 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.44 kW	12.41 kW



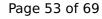


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.21
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2931 kWh	3916 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
emperature Medium to	emperature	
123 %		
kW 9.40 kW		
3.16		
	3.16	





		NK database on 22 juli 202
Tbiv	-17 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	6.09 kW	5.63 kW
COP Tj = -7°C	3.68	2.71
Pdh Tj = $+2$ °C	3.66 kW	4.40 kW
$COPTj = +2^{\circ}C$	5.48	3.89
Pdh Tj = $+7^{\circ}$ C	2.70 kW	5.06 kW
COP Tj = +7°C	6.48	4.75
Pdh Tj = 12°C	6.23 kW	5.98 kW
COP Tj = 12°C	7.42	5.99
Pdh Tj = Tbiv	8.29 kW	8.23 kW
COP Tj = Tbiv	2.52	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.64 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.40 kW



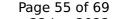


Annual energy consumption Qhe	5697 kWh	7343 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.01	2.01
COP Tj = -15°C (if TOL $<$ -20°C)	2.72	2.01

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	194 %	140 %
Prated	12.13 kW	10.00 kW
SCOP	4.92	3.56
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.89 kW	8.44 kW
COP Tj = -7°C	2.98	2.25
Pdh Tj = $+2$ °C	6.78 kW	5.45 kW
COP Tj = +2°C	4.91	3.56





This information was generated by the HP KEYMARK database on 22 Jun 2022 Pdh Tj = $+7^{\circ}$ C 4.05 kW 4.98 kW $COP Tj = +7^{\circ}C$ 4.44 6.33 Pdh Tj = 12° C 3.00 kW 5.93 kW COPTj = 12°C7.60 5.76 10.00 kW Pdh Tj = Tbiv12.13 kW COP Tj = Tbiv1.88 2.56 12.13 kW Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 10.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.56 1.88 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 1.00 1.00 60 °C WTOL 60 °C Poff 22 W 22 W PTO 23 W 23 W 22 W 22 W **PSB PCK** 0 W 0 W

Domestic Hot Water (DHW)

Supplementary Heater: Type of energy input

Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

Electricity

0.00 kW

5090 kWh

Electricity

0.00 kW

5794 kWh

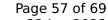


EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.30	
Heating up time	01:59 h:min	
Standby power input	61.0 W	
Reference hot water temperature	51.4 °C	
Mixed water at 40°C	252 I	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	77 %	
СОР	1.78	
Heating up time	02:51 h:min	
Standby power input	92.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	260 I	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	89 %	
СОР	2.08	
Heating up time	02:27 h:min	
Standby power input	67.0 W	
Reference hot water temperature	51.8 °C	
Mixed water at 40°C	259 I	



Model: Buderus Logatherm WLW196i-14 IRTP120

Configure model		
Model name	Buderus Logatherm WLW196i-14 IRTP120	
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	5.08 kW	4.10 kW
El input	1.09 kW	1.68 kW
СОР	4.68	2.45

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	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	228 %	162 %
Prated	13.44 kW	12.41 kW
SCOP	5.78	4.12
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	13.44 kW	12.41 kW
$COPTj = +2^{\circ}C$	2.82	2.17
Pdh Tj = $+7$ °C	8.54 kW	8.58 kW
$COPTj = +7^{\circ}C$	5.05	3.56
Pdh Tj = 12°C	4.07 kW	5.86 kW
COP Tj = 12°C	7.38	5.30
Pdh Tj = Tbiv	13.44 kW	12.41 kW
COP Tj = Tbiv	2.82	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.44 kW	12.41 kW



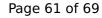


	I
2.82	2.17
60 °C	60 °C
22 W	22 W
23 W	23 W
22 W	22 W
o w	0 W
Electricity	Electricity
0.00 kW	0.00 kW
3105 kWh	4025 kWh
	60 °C 22 W 23 W 22 W 0 W Electricity 0.00 kW

Colder Climate

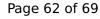
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	51 dB(A)	51 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	163 %	120 %
Prated	10.00 kW	9.40 kW
SCOP	4.15	3.09





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Tbiv	-17 °C	-17 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	6.09 kW	5.63 kW
COP Tj = -7°C	3.56	2.66
Pdh Tj = +2°C	3.66 kW	4.40 kW
COP Tj = +2°C	5.20	3.79
Pdh Tj = $+7^{\circ}$ C	2.70 kW	5.06 kW
$COPTj = +7^{\circ}C$	6.06	4.61
Pdh Tj = 12°C	6.23 kW	5.98 kW
COP Tj = 12°C	6.94	5.78
Pdh Tj = Tbiv	8.29 kW	8.23 kW
COP Tj = Tbiv	2.46	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.64 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.78
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.40 kW





Annual energy consumption Qhe	5947 kWh	7507 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.01	7.48
COP Tj = -15°C (if TOL $<$ -20°C)	2.65	1.99

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	185 %	136 %
Prated	12.13 kW	10.00 kW
SCOP	4.70	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.89 kW	8.44 kW
COP Tj = -7°C	2.92	2.22
Pdh Tj = $+2$ °C	6.78 kW	5.45 kW
COP Tj = +2°C	4.69	3.48



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Pdh Tj = +7°C	4.05 kW	4.98 kW
$COP Tj = +7^{\circ}C$	5.96	4.32
Pdh Tj = 12°C	3.00 kW	5.93 kW
COP Tj = 12°C	7.04	5.57
Pdh Tj = Tbiv	12.13 kW	10.00 kW
COP Tj = Tbiv	2.52	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.13 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	23 W	23 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5335 kWh	5935 kWh

Model: Buderus Logatherm WLW196i-14 ARTP120

Configure model		
Model name	Buderus Logatherm WLW196i-14 ARTP120	
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	5.63 kW	4.32 kW		
El input	1.21 kW	1.66 kW		
СОР	4.66	2.60		

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	49 dB(A)	49 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	229 %	166 %	
Prated	14.30 kW	12.50 kW	
SCOP	5.79	4.22	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	14.59 kW	12.49 kW	
$COP Tj = +2^{\circ}C$	2.81	2.15	
Pdh Tj = $+7$ °C	8.92 kW	8.08 kW	
$COPTj = +7^{\circ}C$	5.10	3.73	
Pdh Tj = 12°C	4.16 kW	5.99 kW	
COP Tj = 12°C	7.44	5.42	
Pdh Tj = Tbiv	14.59 kW	12.49 kW	
COP Tj = Tbiv	2.81	2.15	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.59 kW	12.49 kW	





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	2.15
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3299 kWh	3959 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	49 dB(A)	49 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	155 %	120 %
Prated	10.00 kW	9.10 kW
SCOP	3.94	3.08





3	,	riik database on 22 jan 202
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
$COP Tj = -7^{\circ}C$	3.59	2.64
Pdh Tj = $+2$ °C	4.91 kW	4.40 kW
COP Tj = +2°C	4.43	3.76
Pdh Tj = $+7^{\circ}$ C	5.34 kW	5.07 kW
$COPTj = +7^{\circ}C$	5.81	4.60
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	6.92	6.03
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.17	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.63
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	41 W	41 W
PSB	24 W	24 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.10 kW
	·	•





Annual energy consumption Qhe	6251 kWh	7274 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.92	7.13
COP Tj = -15°C (if TOL $<$ -20°C)	2.59	1.94

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	49 dB(A)	49 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	183 %	138 %	
Prated	12.00 kW	10.00 kW	
SCOP	4.64	3.52	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.36 kW	9.51 kW	
COP Tj = -7°C	2.82	2.22	
Pdh Tj = $+2$ °C	6.84 kW	5.60 kW	
COP Tj = +2°C	4.64	3.56	



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Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.02	4.36
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	6.87	5.58
Pdh Tj = Tbiv	12.26 kW	10.11 kW
COP Tj = Tbiv	2.40	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.88
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	41 W	41 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5346 kWh	5861 kWh