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Login

Summary of	Buderus Logatherm WLW196i-11 AR and IR	Reg. No.	011-1W0130	
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-11 AR and IR			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.3 kg			
Certification Date	18.07.2017			
Testing basis	HP KEYMARK certification scheme rules rev. 8			



Model: Buderus Logatherm WLW196i-11 ARE

Configure model		
Model name	Buderus Logatherm WLW196i-11 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	5.19 kW	4.62 kW		
El input	1.04 kW	1.62 kW		
СОР	4.98	2.85		

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}	249 %	167 %	
Prated	11.80 kW	11.43 kW	
SCOP	6.30	4.24	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	11.80 kW	11.43 kW	
$COP Tj = +2^{\circ}C$	3.04	2.17	
Pdh Tj = $+7^{\circ}$ C	7.62 kW	7.90 kW	
$COPTj = +7^{\circ}C$	5.37	3.61	
Pdh Tj = 12°C	3.13 kW	6.01 kW	
COP Tj = 12°C	8.25	5.56	
Pdh Tj = Tbiv	11.80 kW	11.43 kW	
COP Tj = Tbiv	3.04	2.17	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	11.80 kW	11.43 kW	





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 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	2504 kWh	3603 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)	

Low temperature	Medium temperature
152 %	114 %
9.49 kW	8.87 kW
3.87	2.93
_	152 % 9.49 kW





This information was general	ated by the HI KETMA	NK database on 22 Juli 2022
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.61	2.70
Pdh Tj = $+2$ °C	7.25 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Pdh Tj = $+7^{\circ}$ C	5.48 kW	5.19 kW
$COPTj = +7^{\circ}C$	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	6.14
Pdh Tj = Tbiv	8.25 kW	7.71 kW
COP Tj = Tbiv	2.36	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.49 kW	8.87 kW





Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

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 tem				
η_{S}	178 %	140 %		
Prated	9.97 kW	9.33 kW		
SCOP	4.52	3.58		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	9.53 kW	8.41 kW		
COP Tj = -7°C	2.95	2.21		
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW		
COP Tj = +2°C	4.04	3.58		





This information was general	ated by the HI KETMA	TIN database on 22 jun 202
Pdh Tj = $+7$ °C	3.68 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	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	4562 kWh	5389 kWh

Model: Buderus Logatherm WLW196i-11 ARB

Configure model		
Model name Buderus Logatherm WLW196i-11 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

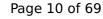
EN 14511-2			
Low temperature Medium temperature			
Heat output	5.19 kW	4.62 kW	
El input	1.04 kW	1.62 kW	
СОР	4.98	2.85	

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}	249 %	167 %
Prated	11.80 kW	11.43 kW
SCOP	6.30	4.24
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}$ C	11.80 kW	11.43 kW
$COP Tj = +2^{\circ}C$	3.04	2.17
Pdh Tj = $+7^{\circ}$ C	7.62 kW	7.90 kW
$COP Tj = +7^{\circ}C$	5.37	3.61
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	8.25	5.56
Pdh Tj = Tbiv	11.80 kW	11.43 kW
COP Tj = Tbiv	3.04	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	11.43 kW



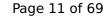


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2504 kWh	3603 kWh

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	
152 %	114 %	
9.49 kW	8.87 kW	
3.87	2.93	
	Low temperature 152 % 9.49 kW	





This information was genera	ated by the HI KETMA	NK database on 22 Juli 2022
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.61	2.70
Pdh Tj = $+2$ °C	7.25 kW	6.86 kW
$COPTj = +2^{\circ}C$	4.12	3.23
Pdh Tj = $+7^{\circ}$ C	5.48 kW	5.19 kW
$COPTj = +7^{\circ}C$	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	6.14
Pdh Tj = Tbiv	8.25 kW	7.71 kW
COP Tj = Tbiv	2.36	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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
	-	





Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
COP Tj = -15 °C (if TOL< -20 °C)	2.61	1.92

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}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.53 kW	8.41 kW
$COPTj = -7^{\circ}C$	2.95	2.21
Pdh Tj = +2°C	5.48 kW	4.74 kW
COP Tj = +2°C	4.04	3.58



Pdh Tj = +7°C	3.68 kW	5.12 kW
COP Tj = +7°C	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4562 kWh	5389 kWh

Model: Buderus Logatherm WLW196i-11 ART190

Configure model		
Model name	Buderus Logatherm WLW196i-11 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

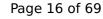
EN 14511-2			
Low temperature Medium temperature			
Heat output	5.19 kW	4.62 kW	
El input	1.04 kW	1.62 kW	
СОР	4.98	2.85	

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}	249 %	167 %
Prated	11.80 kW	11.43 kW
SCOP	6.30	4.24
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.80 kW	11.43 kW
$COP Tj = +2^{\circ}C$	3.04	2.17
Pdh Tj = +7°C	7.62 kW	7.90 kW
$COP Tj = +7^{\circ}C$	5.37	3.61
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	8.25	5.56
Pdh Tj = Tbiv	11.80 kW	11.43 kW
COP Tj = Tbiv	3.04	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	11.43 kW



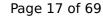


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2504 kWh	3603 kWh

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	
152 %	114 %	
9.49 kW	8.87 kW	
3.87	2.93	
	Low temperature 152 % 9.49 kW	





This information was genera	ated by the HI KETMA	TIK database on 22 juli 2022
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.61	2.70
Pdh Tj = $+2$ °C	7.25 kW	6.86 kW
$COPTj = +2^{\circ}C$	4.12	3.23
Pdh Tj = $+7^{\circ}$ C	5.48 kW	5.19 kW
$COPTj = +7^{\circ}C$	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	6.14
Pdh Tj = Tbiv	8.25 kW	7.71 kW
COP Tj = Tbiv	2.36	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.49 kW	8.87 kW
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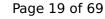


Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

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}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.53 kW	8.41 kW
COP Tj = -7°C	2.95	2.21
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW
$COP Tj = +2^{\circ}C$	4.04	3.58





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Pdh Tj = $+7^{\circ}$ C	3.68 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4562 kWh	5389 kWh

Domestic Hot Water (DHW)

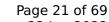


EN 16147		
Declared load profile	L	
Efficiency ηDHW	111 %	
СОР	2.55	
Heating up time	01:48 h:min	
Standby power input	66.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	266 I	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	76 %	
СОР	1.77	
Heating up time	02:34 h:min	
Standby power input	83.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	269 I	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	92 %	
СОР	2.15	
Heating up time	02:12 h:min	
Standby power input	68.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	265 I	

Model: Buderus Logatherm WLW196i-11 ARTS185

Configure model		
Model name	Buderus Logatherm WLW196i-11 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

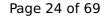
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.19 kW	4.62 kW	
El input	1.04 kW	1.62 kW	
СОР	4.98	2.85	

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}	249 %	167 %	
Prated	11.80 kW	11.43 kW	
SCOP	6.30	4.24	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	11.80 kW	11.43 kW	
$COP Tj = +2^{\circ}C$	3.04	2.17	
Pdh Tj = +7°C	7.62 kW	7.90 kW	
$COP Tj = +7^{\circ}C$	5.37	3.61	
Pdh Tj = 12°C	3.13 kW	6.01 kW	
COP Tj = 12°C	8.25	5.56	
Pdh Tj = Tbiv	11.80 kW	11.43 kW	
COP Tj = Tbiv	3.04	2.17	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	11.43 kW	





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	2504 kWh	3603 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	
152 %	114 %	
9.49 kW	8.87 kW	
3.87	2.93	
	Low temperature 152 % 9.49 kW	





This information was genera	ated by the HI KETMA	TIK database on 22 juli 2022
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
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Pdh Tj = $+7^{\circ}$ C	5.48 kW	5.19 kW
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Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	6.14
Pdh Tj = Tbiv	8.25 kW	7.71 kW
COP Tj = Tbiv	2.36	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.49 kW	8.87 kW
	1	



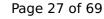


Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

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}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.53 kW	8.41 kW
COP Tj = -7°C	2.95	2.21
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW
COP Tj = +2°C	4.04	3.58





This information was general		Tit database on 22 jan 202
Pdh Tj = $+7$ °C	3.68 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4562 kWh	5389 kWh

Domestic Hot Water (DHW)

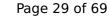


EN 16147		
Declared load profile	L	
Efficiency ηDHW	102 %	
СОР	2.35	
Heating up time	01:51 h:min	
Standby power input	69.0 W	
Reference hot water temperature	51.3 °C	
Mixed water at 40°C	252 l	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	75 %	
СОР	1.73	
Heating up time	02:37 h:min	
Standby power input	94.0 W	
Reference hot water temperature	51.3 °C	
Mixed water at 40°C	257 I	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.11	
Heating up time	02:15 h:min	
Standby power input	71.0 W	
Reference hot water temperature	52.2 °C	
Mixed water at 40°C	255 I	

Model: Buderus Logatherm WLW196i-11 IRE

Configure model		
Model name Buderus Logatherm WLW196i-11 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

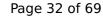
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.67 kW	4.39 kW
El input	0.93 kW	1.62 kW
СОР	5.00	2.71

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	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	249 %	163 %
Prated	10.87 kW	11.43 kW
SCOP	6.29	4.15
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.87 kW	11.43 kW
COP Tj = +2°C	3.04	2.17
Pdh Tj = $+7^{\circ}$ C	7.30 kW	7.90 kW
$COPTj = +7^{\circ}C$	5.37	3.45
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	8.25	5.56
Pdh Tj = Tbiv	10.87 kW	11.43 kW
COP Tj = Tbiv	3.04	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10.87 kW	11.43 kW



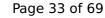


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2308 kWh	3681 kWh

Colder Climate

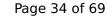
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
Low temperature	Medium temperature	
148 %	113 %	
9.05 kW	9.15 kW	
3.78	2.90	
	Low temperature 148 % 9.05 kW	





This information was genera	acca by the fit RETIN	THE database on 22 july 2022
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.61	2.70
Pdh Tj = $+2$ °C	5.40 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Pdh Tj = $+7^{\circ}$ C	2.77 kW	5.19 kW
COP Tj = +7°C	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	5.90
Pdh Tj = Tbiv	7.39 kW	7.71 kW
COP Tj = Tbiv	2.11	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.05 kW	9.15 kW
	1	



1.92



This information was generated by the HP KEYMARK database on 22 Jun 202			2
Annual energy consumption Qhe	5895 kWh	7769 kWh	
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92	

2.61

Average Climate

COP Tj = -15°C (if TOL<-20°C)

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.14 kW	8.41 kW
COP Tj = -7°C	2.95	2.21
Pdh Tj = +2°C	5.48 kW	4.74 kW
COP Tj = +2°C	4.04	3.58



Pdh Tj = +7°C	3.54 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4558 kWh	5389 kWh



Model: Buderus Logatherm WLW196i-11 IRB

Configure model		
Model name	Buderus Logatherm WLW196i-11 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

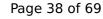
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.67 kW	4.39 kW
El input	0.93 kW	1.62 kW
СОР	5.00	2.71

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	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	249 %	163 %
Prated	10.87 kW	11.43 kW
SCOP	6.29	4.15
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.87 kW	11.43 kW
$COP Tj = +2^{\circ}C$	3.04	2.17
Pdh Tj = +7°C	7.30 kW	7.90 kW
$COP Tj = +7^{\circ}C$	5.37	3.45
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	8.25	5.56
Pdh Tj = Tbiv	10.87 kW	11.43 kW
COP Tj = Tbiv	3.04	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10.87 kW	11.43 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 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	2308 kWh	3681 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	50 dB(A)	50 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
Low temperature	Medium temperature	
148 %	113 %	
9.05 kW	9.15 kW	
3.78	2.90	
	Low temperature 148 % 9.05 kW	





This information was gener	ated by the HP KETMA	RK database on 22 Jun 2022
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°C	3.61	2.70
Pdh Tj = +2°C	5.40 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Pdh Tj = +7°C	2.77 kW	5.19 kW
$COP Tj = +7^{\circ}C$	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	5.90
Pdh Tj = Tbiv	7.39 kW	7.71 kW
COP Tj = Tbiv	2.11	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
	1	





Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.14 kW	8.41 kW
COP Tj = -7°C	2.95	2.21
Pdh Tj = +2°C	5.48 kW	4.74 kW
COP Tj = +2°C	4.04	3.58



Pdh Tj = +7°C	3.54 kW	5.12 kW
COP Tj = +7°C	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4558 kWh	5389 kWh

Model: Buderus Logatherm WLW196i-11 IRT190

Configure model		
Model name	Buderus Logatherm WLW196i-11 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	4.67 kW	4.39 kW		
El input	0.93 kW	1.62 kW		
СОР	5.00	2.71		

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	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	249 %	163 %	
Prated	10.87 kW	11.43 kW	
SCOP	6.29	4.15	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = $+2$ °C	10.87 kW	11.43 kW	
$COPTj = +2^{\circ}C$	3.04	2.17	
Pdh Tj = $+7$ °C	7.30 kW	7.90 kW	
$COPTj = +7^{\circ}C$	5.37	3.45	
Pdh Tj = 12°C	3.13 kW	6.01 kW	
COP Tj = 12°C	8.25	5.56	
Pdh Tj = Tbiv	10.87 kW	11.43 kW	
COP Tj = Tbiv	3.04	2.17	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.87 kW	11.43 kW	





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	2308 kWh	3681 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	50 dB(A)	50 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
Low temperature	Medium temperature	
148 %	113 %	
9.05 kW	9.15 kW	
3.78	2.90	
	Low temperature 148 % 9.05 kW	





This information was genera	,	
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°C	3.61	2.70
Pdh Tj = $+2$ °C	5.40 kW	6.86 kW
$COPTj = +2^{\circ}C$	4.12	3.23
Pdh Tj = $+7^{\circ}$ C	2.77 kW	5.19 kW
COP Tj = +7°C	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	5.90
Pdh Tj = Tbiv	7.39 kW	7.71 kW
COP Tj = Tbiv	2.11	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.05 kW	9.15 kW



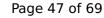


Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	50 dB(A)	50 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{S}	178 %	140 %	
Prated	9.97 kW	9.33 kW	
SCOP	4.52	3.58	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7 °C	9.14 kW	8.41 kW	
COP Tj = -7°C	2.95	2.21	
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW	
COP Tj = +2°C	4.04	3.58	





This information was general	· · · · · · · · · · · · · · · · · · ·	database on 22 jan 202
Pdh Tj = $+7$ °C	3.54 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4558 kWh	5389 kWh
		-

Domestic Hot Water (DHW)

Warmer Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	111 %	
СОР	2.55	
Heating up time	01:49 h:min	
Standby power input	66.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	266 I	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	76 %	
СОР	1.77	
Heating up time	02:34 h:min	
Standby power input	83.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	269 I	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	92 %	
СОР	2.15	
Heating up time	02:12 h:min	
Standby power input	68.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	265 I	

Model: Buderus Logatherm WLW196i-11 IRTS185

Configure model		
Model name Buderus Logatherm WLW196i-11 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	4.67 kW	4.39 kW
El input	0.93 kW	1.62 kW
СОР	5.00	2.71

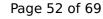
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	249 %	163 %
Prated	10.87 kW	11.43 kW
SCOP	6.29	4.15
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	10.87 kW	11.43 kW
$COPTj = +2^{\circ}C$	3.04	2.17
Pdh Tj = $+7$ °C	7.30 kW	7.90 kW
$COPTj = +7^{\circ}C$	5.37	3.45
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	8.25	5.56
Pdh Tj = Tbiv	10.87 kW	11.43 kW
COP Tj = Tbiv	3.04	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.87 kW	11.43 kW



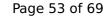


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.17
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2308 kWh	3681 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
Low temperature	Medium temperature	
148 %	113 %	
9.05 kW	9.15 kW	
3.78	2.90	
	Low temperature 148 % 9.05 kW	





inis information was gener	ated by the HP KETMA	ark database on 22 jun 2022
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°C	3.61	2.70
Pdh Tj = +2°C	5.40 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Pdh Tj = +7°C	2.77 kW	5.19 kW
$COP Tj = +7^{\circ}C$	6.35	4.86
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	5.90
Pdh Tj = Tbiv	7.39 kW	7.71 kW
COP Tj = Tbiv	2.11	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.69
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.05 kW	9.15 kW
	1	



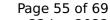


Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
COP Tj = -15°C (if TOL $<$ -20°C)	2.61	1.92

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	178 %	140 %
Prated	9.97 kW	9.33 kW
SCOP	4.52	3.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	9.14 kW	8.41 kW
COP Tj = -7°C	2.95	2.21
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW
COP Tj = +2°C	4.04	3.58





This information was general	· · · · · · · · · · · · · · · · · · ·	database on 22 jan 202
Pdh Tj = $+7$ °C	3.54 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.71	4.54
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.94	5.66
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4558 kWh	5389 kWh
		-

Domestic Hot Water (DHW)

Warmer Climate

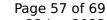


EN 16147		
Declared load profile	L	
Efficiency ηDHW	102 %	
СОР	2.35	
Heating up time	01:51 h:min	
Standby power input	69.0 W	
Reference hot water temperature	51.3 °C	
Mixed water at 40°C	252 l	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	75 %	
СОР	1.73	
Heating up time	02:37 h:min	
Standby power input	94.0 W	
Reference hot water temperature	51.3 °C	
Mixed water at 40°C	257 I	

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.11	
Heating up time	02:15 h:min	
Standby power input	71.0 W	
Reference hot water temperature	52.2 °C	
Mixed water at 40°C	255 I	

Model: Buderus Logatherm WLW196i-11 ARTP120

Configure model		
Model name	Buderus Logatherm WLW196i-11 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	5.19 kW	4.62 kW
El input	1.09 kW	1.65 kW
СОР	4.76	2.80

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}	233 %	161 %
Prated	11.80 kW	11.43 kW
SCOP	5.90	4.10
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	11.80 kW	11.43 kW
$COP Tj = +2^{\circ}C$	2.98	2.14
Pdh Tj = $+7^{\circ}$ C	7.62 kW	7.90 kW
$COPTj = +7^{\circ}C$	5.11	3.54
Pdh Tj = 12°C	3.13 kW	6.01 kW
COP Tj = 12°C	7.61	5.38
Pdh Tj = Tbiv	11.80 kW	11.43 kW
COP Tj = Tbiv	2.98	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	11.80 kW	11.43 kW



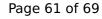


COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.14
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2673 kWh	3720 kWh

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		
145 %	112 %		
9.49 kW	8.88 kW		
3.71	2.87		
_	145 % 9.49 kW		





This information was genera	aced by the Hi KETHA	THE database on 22 july 2022
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.49	2.65
Pdh Tj = $+2$ °C	7.25 kW	6.86 kW
COP Tj = +2°C	3.95	3.16
Pdh Tj = +7°C	5.48 kW	5.19 kW
COP Tj = +7°C	6.00	4.71
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.04	5.92
Pdh Tj = Tbiv	8.25 kW	7.71 kW
COP Tj = Tbiv	2.30	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.67
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.49 kW	8.88 kW





Annual energy consumption Qhe	6307 kWh	7636 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	7.29
COP Tj = -15°C (if TOL $<$ -20°C)	2.54	1.90

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}	170 %	137 %
Prated	9.97 kW	9.26 kW
SCOP	4.31	3.49
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.53 kW	8.41 kW
COP Tj = -7°C	2.89	2.18
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW
$COP Tj = +2^{\circ}C$	3.88	3.50



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Pdh Tj = $+7^{\circ}$ C	3.68 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.30	4.42
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.35	5.51
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.54	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.82
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 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	4776 kWh	5484 kWh



Model: Buderus Logatherm WLW196i-11 IRTP120

Configure model		
Model name	Buderus Logatherm WLW196i-11 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	4.67 kW	4.39 kW	
El input	0.98 kW	1.66 kW	
СОР	4.77	2.64	

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	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	233 %	158 %	
Prated	10.87 kW	11.43 kW	
SCOP	5.89	4.02	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = $+2$ °C	10.87 kW	11.43 kW	
$COPTj = +2^{\circ}C$	2.98	2.14	
Pdh Tj = $+7$ °C	7.30 kW	7.90 kW	
$COPTj = +7^{\circ}C$	5.10	3.38	
Pdh Tj = 12°C	3.13 kW	6.01 kW	
COP Tj = 12°C	7.61	5.38	
Pdh Tj = Tbiv	10.87 kW	11.43 kW	
COP Tj = Tbiv	2.98	2.14	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.87 kW	11.43 kW	





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.14
WTOL	60 °C	60 °C
Poff	23 W	23 W
РТО	23 W	23 W
PSB	23 W	23 W
PCK	12 W	12 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2466 kWh	3799 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	50 dB(A)	50 dB(A)	
Sound power level outdoor	37 dB(A)	37 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	143 %	111 %
Prated	9.05 kW	9.15 kW
SCOP	3.64	2.84





This information was genera	ated by the HE KLIMA	NK database on 22 juli 2022
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
$COP Tj = -7^{\circ}C$	3.49	2.66
Pdh Tj = $+2$ °C	5.40 kW	6.86 kW
$COPTj = +2^{\circ}C$	3.97	3.17
Pdh Tj = $+7^{\circ}$ C	2.77 kW	5.19 kW
$COPTj = +7^{\circ}C$	5.95	4.72
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.04	5.70
Pdh Tj = Tbiv	7.39 kW	7.71 kW
COP Tj = Tbiv	2.07	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.67
WTOL	60 °C	60 °C
Poff	23 W	23 W
РТО	23 W	23 W
PSB	23 W	23 W
PCK	12 W	12 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.05 kW	9.15 kW
	1	





Annual energy consumption Qhe	6132 kWh	7938 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	7.29
COP Tj = -15°C (if TOL $<$ -20°C)	2.54	1.90

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	170 %	136 %
Prated	9.97 kW	9.33 kW
SCOP	4.32	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.14 kW	8.41 kW
COP Tj = -7°C	2.88	2.18
Pdh Tj = $+2$ °C	5.48 kW	4.74 kW
$COP Tj = +2^{\circ}C$	3.89	3.50



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Pdh Tj = $+7^{\circ}$ C	3.54 kW	5.12 kW
$COP Tj = +7^{\circ}C$	6.30	4.41
Pdh Tj = 12°C	3.11 kW	6.10 kW
COP Tj = 12°C	7.35	5.47
Pdh Tj = Tbiv	9.97 kW	9.33 kW
COP Tj = Tbiv	2.54	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.97 kW	9.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.82
WTOL	60 °C	60 °C
Poff	23 W	23 W
РТО	23 W	23 W
PSB	23 W	23 W
PCK	12 W	12 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4766 kWh	5534 kWh