

CERTIFICATE

Certificate holder	Bosch Thermotechnik GmbH Sophienstr. 30-32 35576 Wetzlar GERMANY
Production facility	Aveiro, Tranas
Product	Air/Water Heat pumps
Type, Model	Buderus Logatherm WLW196i-11 AR and IR
Testing basis	DIN EN 14511-1; DIN EN 14511-2; DIN EN 14511-3; DIN EN 14511-4:2019-07 DIN EN 14825:2019-07 DIN EN 12102-1:2018-02 DIN EN 16147:2017-08 European KEYMARK Scheme for Heat Pumps Rev. 8 (2020-09)
Mark of conformity	B
Registration No.	011-1W0130
Valid until	2027-07-31
Right of use	This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.
DAKKS Deutsche Akkreditierungsstelle D-ZE-11125-01-00	2021-05-17 DiplWiIng. (FH) Sören Scholz Head of Certification Body

DIN CERTCO Gesellschaft für Konformitätsbewertung mbH · Alboinstraße 56 · D-12103 Berlin · www.dincertco.de



ANNEX

Certificate

011-1W0130 dated 2021-05-17

Technical Data

See Heat Pump KEYMARK database for detailed information

Testing laboratory/ Inspection body RISE Research Institutes of Sweden AB PO Box 857 501 15 Boras SWEDEN

Test report(s)

3P06665-02 dated 2014-06-30



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	Buderus Logatherm WLW196i-11 AR and IR	Reg. No.	011-1W0130		
Certificate Holder	Certificate Holder				
	Bosch Thermotechnik GmbH (Buderus)				
	Sophienstraße 30-32		35576		
	Wetzlar		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				

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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

Warmer Climate



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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°C	3.04	2.17
Pdh Tj = +7°C	7.62 kW	7.90 kW
COP Tj = +7°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

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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
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	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
η _s	152 %	114 %
Prated	9.49 kW	8.87 kW
SCOP	3.87	2.93

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This information was genera		
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°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°C	5.48 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	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
	1	1

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

N 14825	
Low temperature	Medium temperature
178 %	140 %
9.97 kW	9.33 kW
4.52	3.58
-10 °C	-10 °C
-10 °C	-10 °C
9.53 kW	8.41 kW
2.95	2.21
5.48 kW	4.74 kW
4.04	3.58
	178 % 9.97 kW 4.52 -10 °C -10 °C 9.53 kW 2.95 5.48 kW

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I his information was generated by the HP KEYMARK database on 25 Feb 2023			
$Pdh Tj = +7^{\circ}C$	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	
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	



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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	

Warmer Climate



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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°C	3.04	2.17	
Pdh Tj = +7°C	7.62 kW	7.90 kW	
COP Tj = +7°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	

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1	
3.04	2.17
60 °C	60 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
n/a	n/a
0.00 kW	0.00 kW
2504 kWh	3603 kWh
	60 °C 20 W 20 W 20 W 20 W 0 W n/a 0.00 kW

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	152 %	114 %
Prated	9.49 kW	8.87 kW
SCOP	3.87	2.93

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Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°C	3.61	2.70
Cdh Tj = -7 °C		
Pdh Tj = +2°C	7.25 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Cdh Tj = +2 °C		
Pdh Tj = +7°C	5.48 kW	5.19 kW
COP Tj = +7°C	6.35	4.86
Cdh Tj = +7 °C		
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	6.14
Cdh Tj = +12 °C		
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	20 W	20 W

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	····	
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
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
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	2.61	1.92
Cdh Tj = -15 °C		

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

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This information was genera	ted by the HP KEYMAR	K database on 25 Feb 2023
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
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
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
	-	

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Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4562 kWh	5389 kWh

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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	

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	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°C	3.04	2.17	
Pdh Tj = +7°C	7.62 kW	7.90 kW	
COP Tj = +7°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	

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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
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	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			
η _s	152 %	114 %	
Prated	9.49 kW	8.87 kW	
SCOP	3.87	2.93	

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Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°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°C	5.48 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	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
	1	1



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Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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

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	K Ualabase on 25 Feb 2023
3.68 kW	5.12 kW
6.71	4.54
3.11 kW	6.10 kW
7.94	5.66
9.97 kW	9.33 kW
2.59	1.84
9.97 kW	9.33 kW
2.59	1.84
1.00	1.00
60 °C	60 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
4562 kWh	5389 kWh
	3.68 kW 6.71 3.11 kW 7.94 9.97 kW 2.59 9.97 kW 2.59 1.00 60 °C 20 W 20 W 20 W 20 W 20 W Electricity 0.00 kW

Domestic Hot Water (DHW)

Warmer Climate



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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

Average Climate



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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	

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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

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	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°C	3.04	2.17
Pdh Tj = +7°C	7.62 kW	7.90 kW
COP Tj = +7°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

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3.04 60 °C	2.17
60 °C	
	60 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
2504 kWh	3603 kWh
2 2 0 E	0 W 0 W W lectricity .00 kW

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	152 %	114 %
Prated	9.49 kW	8.87 kW
SCOP	3.87	2.93

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Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°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°C	5.48 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	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
	1	1

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Annual energy consumption Qhe	6039 kWh	7456 kWh
Pdh Tj = -15°C (if TOL<-20°C)	8.25	1.92
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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

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

Domestic Hot Water (DHW)

Warmer Climate



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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 I	

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

Average Climate



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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 l



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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	

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
COP Tj = +2°C	3.04	2.17
Pdh Tj = +7°C	7.30 kW	7.90 kW
COP Tj = +7°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

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	-	
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
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	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
η _s	148 %	113 %
Prated	9.05 kW	9.15 kW
SCOP	3.78	2.90

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This information was genera		RK Ualabase on 25 Feb 2023
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°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



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Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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

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This information was generated by the HP KETMARK database on 25 Feb 2			
$Pdh Tj = +7^{\circ}C$	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	
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	4558 kWh	5389 kWh	



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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	

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
COP Tj = +2°C	3.04	2.17
Pdh Tj = +7°C	7.30 kW	7.90 kW
COP Tj = +7°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

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	-	
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
РСК	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
η _s	148 %	113 %
Prated	9.05 kW	9.15 kW
SCOP	3.78	2.90

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		RK database on 25 Feb 2023
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
Cdh Tj = -7 °C		
Pdh Tj = +2°C	5.40 kW	6.86 kW
COP Tj = +2°C	4.12	3.23
Cdh Tj = +2 °C		
Pdh Tj = +7°C	2.77 kW	5.19 kW
COP Tj = +7°C	6.35	4.86
Cdh Tj = +7 °C		
Pdh Tj = 12°C	3.07 kW	6.14 kW
COP Tj = 12°C	7.59	5.90
Cdh Tj = +12 °C		
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	20 W	20 W

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РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
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
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	2.61	1.92
Cdh Tj = -15 °C		

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

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This information was genera	ted by the HP KEYMAR	K database on 25 Feb 2023
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
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a

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Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4558 kWh	5389 kWh

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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 = $+2^{\circ}C$	10.87 kW	11.43 kW
COP Tj = +2°C	3.04	2.17
Pdh Tj = +7°C	7.30 kW	7.90 kW
COP Tj = +7°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

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-	
3.04	2.17
60 °C	60 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
2308 kWh	3681 kWh
	60 °C 20 W 20 W 20 W 20 W 0 W Electricity 0.00 kW

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	148 %	113 %
Prated	9.05 kW	9.15 kW
SCOP	3.78	2.90

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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 = $+7^{\circ}$ 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

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Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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

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$Pdh Tj = +7^{\circ}C$	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	
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	4558 kWh	5389 kWh	

Domestic Hot Water (DHW)

Warmer Climate



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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	

Average Climate



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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	

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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 = $+2^{\circ}$ C	10.87 kW	11.43 kW
COP Tj = +2°C	3.04	2.17
Pdh Tj = +7°C	7.30 kW	7.90 kW
COP Tj = +7°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

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	-	
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
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	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 temperatur			
η _s	148 %	113 %	
Prated	9.05 kW	9.15 kW	
SCOP	3.78	2.90	

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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°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

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Annual energy consumption Qhe	5895 kWh	7769 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	1.92
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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

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I his information was general		
$Pdh Tj = +7^{\circ}C$	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
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	4558 kWh	5389 kWh

Domestic Hot Water (DHW)

Warmer Climate



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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 I	

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	

Average Climate



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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	

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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°C	2.98	2.14
Pdh Tj = +7°C	7.62 kW	7.90 kW
COP Tj = +7°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

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-	
2.98	2.14
60 °C	60 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
2673 kWh	3720 kWh
	60 °C 20 W 20 W 20 W 20 W 0 W Electricity 0.00 kW

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	145 %	112 %
Prated	9.49 kW	8.88 kW
SCOP	3.71	2.87

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This information was genera	ted by the HP KEYMAI	RK database on 25 Feb 2023
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°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
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Annual energy consumption Qhe	6307 kWh	7636 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	7.29
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	
170 %	137 %	
9.97 kW	9.26 kW	
4.31	3.49	
-10 °C	-10 °C	
-10 °C	-10 °C	
9.53 kW	8.41 kW	
2.89	2.18	
5.48 kW	4.74 kW	
3.88	3.50	
	Low temperature 170 % 9.97 kW 4.31 -10 °C -10 °C 9.53 kW 2.89 5.48 kW	

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3.68 kW	5.12 kW		
6.30	4.42		
3.11 kW	6.10 kW		
7.35	5.51		
9.97 kW	9.33 kW		
2.54	1.82		
9.97 kW	9.33 kW		
2.54	1.82		
60 °C	60 °C		
20 W	20 W		
20 W	20 W		
20 W	20 W		
0 W	0 W		
Electricity	Electricity		
0.00 kW	0.00 kW		
4776 kWh	5484 kWh		
	3.68 kW 6.30 3.11 kW 7.35 9.97 kW 2.54 9.97 kW 2.54 60 °C 20 W 20 W 20 W 20 W 20 W 0 W 20 W 0 W 20 W 0 W 0 W 0 W 0 W		



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 = $+2^{\circ}$ C	10.87 kW	11.43 kW
COP Tj = +2°C	2.98	2.14
Pdh Tj = +7°C	7.30 kW	7.90 kW
COP Tj = +7°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

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2.98	2.14
60 °C	60 °C
23 W	23 W
23 W	23 W
23 W	23 W
12 W	12 W
Electricity	Electricity
0.00 kW	0.00 kW
2466 kWh	3799 kWh
	60 °C 23 W 23 W 23 W 23 W 12 W Electricity 0.00 kW

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

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This information was genera	ted by the HP KEYMA	RK database on 25 Feb 2023
Tbiv	-17 °C	-16 °C
TOL	-18 °C	-17 °C
Pdh Tj = -7°C	5.98 kW	5.62 kW
COP Tj = -7°C	3.49	2.66
Pdh Tj = +2°C	5.40 kW	6.86 kW
COP Tj = +2°C	3.97	3.17
Pdh Tj = +7°C	2.77 kW	5.19 kW
$COP Tj = +7^{\circ}C$	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
РСК	12 W	12 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.05 kW	9.15 kW



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This information was generated by the HP KEYMARK database on 25 Feb 2023

Annual energy consumption Qhe	6132 kWh	7938 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.80	7.29
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	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	e 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°C	3.89	3.50	

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$Pdh Tj = +7^{\circ}C$	3.54 kW	5.12 kW	
COP Tj = +7°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	
РСК	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	



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Model: Buderus Hybrid-Set WLW196i-11 A H

Configure model		
Model name	Buderus Hybrid-Set WLW196i-11 A H	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	5.18 kW	7.41 kW	
El input	1.06 kW	2.61 kW	
СОР	4.89	2.84	

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	24 dB(A)	24 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_s	237 %	161 %	
Prated	11.80 kW	11.40 kW	
SCOP	6.00	4.11	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	11.80 kW	11.43 kW	
COP Tj = +2°C	2.97	2.08	
Cdh Tj = +2 °C	1.000	1.000	
Pdh Tj = +7°C	7.71 kW	7.96 kW	
COP Tj = +7°C	5.04	3.53	
Cdh Tj = +7 °C	1.000	1.000	
Pdh Tj = 12°C	3.21 kW	5.96 kW	
COP Tj = 12°C	8.31	5.57	
Cdh Tj = +12 °C	1.000	0.970	

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This mornation was generated by the Thirk Catabase of 25 Teb 202			
Pdh Tj = Tbiv	11.80 kW	11.43 kW	
COP Tj = Tbiv	2.97	2.08	
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	2.97	2.08	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	27 W	27 W	
PSB	26 W	26 W	
РСК	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	2628 kWh	3705 kWh	

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	24 dB(A)	24 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature

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This information was genera		
η _s	168 %	119 %
Prated	9.50 kW	8.90 kW
SCOP	4.16	3.05
Tbiv	-17 °C	-12 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	5.79 kW	5.78 kW
COP Tj = -7°C	3.72	2.68
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2^{\circ}C$	3.50 kW	3.83 kW
COP Tj = +2°C	4.89	3.28
Cdh Tj = +2 °C	1.000	0.980
$Pdh Tj = +7^{\circ}C$	2.77 kW	5.23 kW
COP Tj = +7°C	7.49	4.71
Cdh Tj = +7 °C	0.930	0.980
Pdh Tj = 12°C	3.20 kW	6.11 kW
COP Tj = 12°C	8.18	6.04
Cdh Tj = +12 °C	0.930	0.970
Pdh Tj = Tbiv	8.55 kW	6.42 kW
COP Tj = Tbiv	2.25	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.86 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.86

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60 °C	60 °C		
11 W	11 W		
27 W	27 W		
26 W	26 W		
0 W	0 W		
Gas	Gas		
9.50 kW	8.90 kW		
5487 kWh	7194 kWh		
8.31			
2.46			
	11 W 27 W 26 W 0 W Gas 9.50 kW 5487 kWh 8.31		

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	24 dB(A)	24 dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η _s	194 %	136 %
Prated	10.00 kW	9.30 kW

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This information was generated by the HP KEYMARK database on 25 Feb 202			
SCOP	4.92	3.47	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.31 kW	8.39 kW	
COP Tj = -7°C	3.00	2.15	
Cdh Tj = -7 °C	1.000	1.000	
Pdh Tj = $+2^{\circ}C$	5.17 kW	4.65 kW	
COP Tj = +2°C	4.88	3.48	
Cdh Tj = +2 °C	1.000	1.000	
Pdh Tj = +7°C	3.70 kW	5.06 kW	
COP Tj = +7°C	6.56	4.46	
Cdh Tj = +7 °C	1.000	0.980	
Pdh Tj = 12°C	3.22 kW	6.05 kW	
COP Tj = 12°C	8.28	5.81	
Cdh Tj = +12 °C	0.930	0.970	
Pdh Tj = Tbiv	10.23 kW	8.39 kW	
COP Tj = Tbiv	2.60	2.15	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.23 kW	6.33 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.89	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000	
WTOL	60 °C	60 °C	

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This information was generated by the HP KEYMARK database on 25 Feb 2023

Poff	11 W	11 W
РТО	27 W	27 W
PSB	26 W	26 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Gas
Supplementary Heater: PSUP	0.00 kW	2.97 kW
Annual energy consumption Qhe	4198 kWh	5535 kWh