

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

Summary of	Buderus Logatherm WLW196i-6 AR and IR, Buderus Logatherm WLW196i.2-4 AR		Reg. No.	011-1W0128
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			
Name of testing laboratory	RISE Research Institutes of Sweden AB			
Subtype title	Buderus Logatherm WLW196i-6 AR and IR, Buderus Logatherm WLW196i.2-4 AR			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	1.75 kg			
Certification Date	18.07.2017			

Model: Buderus Logatherm WLW196i-6 ARE

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW

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

COP $T_j = T_{biv}$	2.65	1.91
P _{dh} $T_j = TOL$	4.10 kW	4.30 kW
COP $T_j = TOL$	1.57	1.60
C _{dh}	0.90	1.00
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
P _{TO}	17 W	17 W
P _{SB}	17 W	17 W
P _{CK}	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: P _{SUP}	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2227 kWh	2740 kWh

Model: Buderus Logatherm WLW196i-6 ARB

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW

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

COP $T_j = T_{biv}$	2.65	1.91
P _{dh} $T_j = TOL$	4.10 kW	4.30 kW
COP $T_j = TOL$	1.57	1.60
C _{dh}	0.90	1.00
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
P _{TO}	17 W	17 W
P _{SB}	17 W	17 W
P _{CK}	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: P _{SUP}	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2227 kWh	2740 kWh

Model: Buderus Logatherm WLW196i-6 ART

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW

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

COP Tj = Tbiv	2.65	1.91
Pdh Tj = TOL	4.10 kW	4.30 kW
COP Tj = TOL	1.57	1.60
Cdh	0.90	1.00
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2227 kWh	2740 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.40
Heating up time	02:44 h:min
Standby power input	58.7 W
Reference hot water temperature	55.6 °C
Mixed water at 40°C	284 l

Model: Buderus Logatherm WLW196i-6 ARTS

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW

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

COP $T_j = T_{biv}$	2.65	1.91
P _{dh} $T_j = TOL$	4.10 kW	4.30 kW
COP $T_j = TOL$	1.57	1.60
C _{dh}	0.90	1.00
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
P _{TO}	17 W	17 W
P _{SB}	17 W	17 W
P _{CK}	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: P _{SUP}	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2227 kWh	2740 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.40
Heating up time	02:44 h:min
Standby power input	58.7 W
Reference hot water temperature	55.6 °C
Mixed water at 40°C	284 l

Model: Buderus Logatherm WLW196i-6 IRE

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW
COP Tj = Tbiv	2.65	1.91

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

Pdh Tj = TOL	4.10 kW	4.30 kW
COP Tj = TOL	1.57	1.60
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2227 kWh	2740 kWh

Model: Buderus Logatherm WLW196i-6 IRB

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW
COP Tj = Tbiv	2.65	1.91

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

Pdh Tj = TOL	4.10 kW	4.30 kW
COP Tj = TOL	1.57	1.60
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2227 kWh	2740 kWh

Model: Buderus Logatherm WLW196i-6 IRT

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW
COP Tj = Tbiv	2.65	1.91

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

Pdh Tj = TOL	4.10 kW	4.30 kW
COP Tj = TOL	1.57	1.60
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2227 kWh	2740 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.40
Heating up time	02:44 h:min
Standby power input	58.7 W
Reference hot water temperature	55.6 °C
Mixed water at 40°C	284 l

Model: Buderus Logatherm WLW196i-6 IRTS

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.96 kW	2.18 kW
El input	0.61 kW	0.80 kW
COP	4.84	2.74
Indoor water flow rate	0.65 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	145 %
Prated	5.00 kW	5.00 kW
SCOP	5.15	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.80 kW	4.00 kW
COP Tj = -7°C	3.00	2.22
Pdh Tj = +2°C	2.90 kW	2.40 kW
COP Tj = +2°C	4.89	3.42
Pdh Tj = +7°C	1.90 kW	2.10 kW
COP Tj = +7°C	6.64	4.90
Pdh Tj = 12°C	1.30 kW	2.60 kW
COP Tj = 12°C	8.93	7.53
Pdh Tj = Tbiv	5.40 kW	4.50 kW
COP Tj = Tbiv	2.65	1.91

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

Pdh Tj = TOL	4.10 kW	4.30 kW
COP Tj = TOL	1.57	1.60
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2227 kWh	2740 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.40
Heating up time	02:44 h:min
Standby power input	58.7 W
Reference hot water temperature	55.6 °C
Mixed water at 40°C	284 l

Model: Buderus Logatherm WLW196i.2-4 ARB S+

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.14 kW	1.77 kW
El input	0.43 kW	0.69 kW
COP	4.99	2.57
Indoor water flow rate	0.37 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.99	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW

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

COP $T_j = T_{biv}$	2.68	1.82
P _{dh} $T_j = TOL$	4.76 kW	4.49 kW
COP $T_j = TOL$	2.68	1.82
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1971 kWh	2721 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %

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

Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL	3.44 kW	3.39 kW
COP Tj = TOL	2.11	1.56
WTOL	60 °C	60 °C

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

Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.64 kW	0.00 kW
Annual energy consumption Q _{he}	2480 kWh	3250 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh}		

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	242 %	165 %
Prated	5.50 kW	5.40 kW

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

SCOP	6.13	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL	5.48 kW	5.40 kW
COP Tj = TOL	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1199 kWh	1723 kWh

Model: Buderus Logatherm WLW196i.2-4 ARE S+

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.14 kW	1.77 kW
El input	0.43 kW	0.69 kW
COP	4.99	2.57
Indoor water flow rate	0.37 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.99	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW

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

COP $T_j = T_{biv}$	2.68	1.82
P _{dh} $T_j = TOL$	4.76 kW	4.49 kW
COP $T_j = TOL$	2.68	1.82
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1971 kWh	2721 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %

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

Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL	3.44 kW	3.39 kW
COP Tj = TOL	2.11	1.56
WTOL	60 °C	60 °C

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

Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.64 kW	0.00 kW
Annual energy consumption Q _{he}	2480 kWh	3250 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh}		

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	242 %	165 %
Prated	5.50 kW	5.40 kW

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

SCOP	6.13	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL	5.48 kW	5.40 kW
COP Tj = TOL	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1199 kWh	1723 kWh

Model: Buderus Logatherm WLW196i.2-4 ART S+

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.14 kW	1.77 kW
El input	0.43 kW	0.69 kW
COP	4.99	2.57
Indoor water flow rate	0.37 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.99	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW

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

COP $T_j = T_{biv}$	2.68	1.82
P _{dh} $T_j = TOL$	4.76 kW	4.49 kW
COP $T_j = TOL$	2.68	1.82
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1971 kWh	2721 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %

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

Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL	3.44 kW	3.39 kW
COP Tj = TOL	2.11	1.56
WTOL	60 °C	60 °C

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

Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.64 kW	0.00 kW
Annual energy consumption Q _{he}	2480 kWh	3250 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh}		

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	242 %	165 %
Prated	5.50 kW	5.40 kW

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

SCOP	6.13	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL	5.48 kW	5.40 kW
COP Tj = TOL	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1199 kWh	1723 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	100 %
COP	2.36
Heating up time	03:33 h:min
Standby power input	52.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	271 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	84 %
COP	1.96
Heating up time	04:10 h:min
Standby power input	66.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	279 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.80
Heating up time	02:49 h:min
Standby power input	47.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	261 l

Model: Buderus Logatherm WLW196i.2-4 ARTS S+

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.14 kW	1.77 kW
El input	0.43 kW	0.69 kW
COP	4.99	2.57
Indoor water flow rate	0.37 m ³ /h	0.24 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.99	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW

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

COP $T_j = T_{biv}$	2.68	1.82
P _{dh} $T_j = TOL$	4.76 kW	4.49 kW
COP $T_j = TOL$	2.68	1.82
WTOL	60 °C	60 °C
P _{off}	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1971 kWh	2721 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %

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

Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03
Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL	3.44 kW	3.39 kW
COP Tj = TOL	2.11	1.56
WTOL	60 °C	60 °C

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

Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.64 kW	0.00 kW
Annual energy consumption Q _{he}	2480 kWh	3250 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh}		

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	242 %	165 %
Prated	5.50 kW	5.40 kW

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

SCOP	6.13	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL	5.48 kW	5.40 kW
COP Tj = TOL	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	5 W	5 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1199 kWh	1723 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.31
Heating up time	03:11 h:min
Standby power input	54.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	261 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	80 %
COP	1.88
Heating up time	04:05 h:min
Standby power input	67.0 W
Reference hot water temperature	51.7 °C
Mixed water at 40°C	259 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	2.58
Heating up time	02:44 h:min
Standby power input	49.0 W
Reference hot water temperature	51.7 °C
Mixed water at 40°C	247 l