

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

Summary of	Buderus Logatherm WLW196i-4 AR	Reg. No.	011-1W0127
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-4 AR		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.7 kg		

Model: Buderus Logatherm WLW196i-4 ARE

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.03 kW	1.63 kW
El input	0.45 kW	0.62 kW
COP	4.55	2.62
Indoor water flow rate	0.35 m ³ /h	0.18 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost 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	54 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	139 %
Prated	4.00 kW	4.00 kW
SCOP	5.00	3.55
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.90 kW	3.50 kW
COP Tj = -7°C	3.07	2.12
Pdh Tj = +2°C	2.30 kW	2.20 kW
COP Tj = +2°C	4.98	3.32
Pdh Tj = +7°C	1.50 kW	2.20 kW
COP Tj = +7°C	6.54	4.90
Pdh Tj = 12°C	1.40 kW	2.70 kW
COP Tj = 12°C	9.41	7.71
Pdh Tj = Tbiv	4.30 kW	4.00 kW

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COP $T_j = T_{biv}$	2.70	1.81
P _{dh} $T_j = TOL$	3.60 kW	3.30 kW
COP $T_j = TOL$	1.55	1.61
C _{dh}	1.00	1.00
WTOL	60 °C	60 °C
P _{off}	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 Q _{he}	1887 kWh	2466 kWh

Model: Buderus Logatherm WLW196i-4 ARB

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.03 kW	1.63 kW
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EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

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COP $T_j = TOL$	1.55	1.61
C _{dh}	1.00	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}	1887 kWh	2466 kWh

Model: Buderus Logatherm WLW196i-4 ART

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.03 kW	1.63 kW
El input	0.45 kW	0.62 kW
COP	4.55	2.62
Indoor water flow rate	0.35 m ³ /h	0.18 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

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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	1887 kWh	2466 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	2.43
Heating up time	03:22 h:min
Standby power input	51.7 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	284 l

Model: Buderus Logatherm WLW196i-4 ARTS

General Data

Power supply	1x230V 50Hz
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Heating

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