

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

Summary of	Buderus Logatherm WSW196i.2/186 -16	Reg. No.	011-1W0436
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 WSW196i.2/186 -16		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	08.12.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: WSW196i.2-16 T180 (+W) / 186-16 T180

General Data

Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	15.53 kW	14.19 kW
El input	4.12 kW	5.66 kW
COP	3.77	2.51
Indoor water flow rate	2.63 m ³ /h	1.53 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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	205 %	156 %
Prated	15.53 kW	14.19 kW
SCOP	5.33	4.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.90 kW	12.81 kW
COP Tj = -7°C	4.08	2.82
Pdh Tj = +2°C	8.92 kW	7.91 kW
COP Tj = +2°C	5.43	4.23
Pdh Tj = +7°C	5.71 kW	5.39 kW
COP Tj = +7°C	6.09	4.79
Pdh Tj = 12°C	4.88 kW	4.69 kW
COP Tj = 12°C	6.07	5.07
Pdh Tj = Tbiv	15.53 kW	14.19 kW
COP Tj = Tbiv	3.77	2.51

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Pdh Tj = TOL	15.53 kW	14.19 kW
COP Tj = TOL	3.77	2.51
WTOL	71 °C	71 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 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	6018 kWh	7154 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	214 %	163 %
Prated	15.53 kW	14.19 kW
SCOP	5.55	4.28

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Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.06 kW	8.96 kW
COP Tj = -7°C	5.22	3.88
Pdh Tj = +2°C	6.20 kW	5.41 kW
COP Tj = +2°C	6.08	4.80
Pdh Tj = +7°C	4.91 kW	4.75 kW
COP Tj = +7°C	6.16	5.15
Pdh Tj = 12°C	4.88 kW	4.74 kW
COP Tj = 12°C	5.96	5.25
Pdh Tj = Tbiv	15.53 kW	14.19 kW
COP Tj = Tbiv	3.77	2.51
Pdh Tj = TOL	15.53 kW	14.19 kW
COP Tj = TOL	3.77	2.51
WTOL	71 °C	71 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW

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Annual energy consumption Q _{he}	6898 kWh	8176 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	207 %	157 %
Prated	15.53 kW	14.19 kW
SCOP	5.38	4.11
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	15.53 kW	14.19 kW
COP T _j = +2°C	3.77	2.51
P _{dh} T _j = +7°C	9.98 kW	9.31 kW
COP T _j = +7°C	5.10	3.65
P _{dh} T _j = 12°C	4.89 kW	4.71 kW
COP T _j = 12°C	6.10	5.04
P _{dh} T _j = T _{biv}	15.53 kW	14.19 kW

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COP $T_j = T_{biv}$	3.77	2.51
P _{dh} $T_j = TOL$	15.53 kW	14.19 kW
COP $T_j = TOL$	3.77	2.51
WTOL	71 °C	71 °C
P _{off}	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 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}	3856 kWh	4609 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	3.05
Heating up time	01:09 h:min
Standby power input	43.0 W
Reference hot water temperature	46.9 °C
Mixed water at 40°C	206 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	3.05
Heating up time	01:09 h:min
Standby power input	43.0 W
Reference hot water temperature	46.9 °C
Mixed water at 40°C	206 l

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Standby power input	43.0 W
Reference hot water temperature	46.9 °C
Mixed water at 40°C	206 l

Model: WSW196i.2-16 (+W) / 186-16

General Data

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