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Summary of	Buderus Logatherm WSW196i.2/186 -16	Reg. No.	011-1W0436	
Certificate Holder				
Name	Bosch Thermotechnik GmbH (Buderus)	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	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		
СОР	3.77	2.51		
Indoor water flow rate	2.63 m³/h	1.53 m³/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



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 = $+7^{\circ}$ C	5.71 kW	5.39 kW
$COP Tj = +7^{\circ}C$	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
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
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o 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

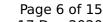
EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		

EN 14825			
nperature	Medium temperat	Low temperature	
	163 %	214 %	η_{s}
	14.19 kW	15.53 kW	Prated
	4.28	5.55	SCOP
_	4.28	5.55	SCOP





Inis information was	generated by the HP	KEYMARK database on 17 Dec 2020
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
$COPTj = +7^{\circ}C$	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
РТО	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





8176 kWh	6898 kWh	Annual energy consumption Qhe
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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
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.53 kW	14.19 kW
COP Tj = +2°C	3.77	2.51
Pdh Tj = +7°C	9.98 kW	9.31 kW
COP Tj = +7°C	5.10	3.65
Pdh Tj = 12°C	4.89 kW	4.71 kW
COP Tj = 12°C	6.10	5.04
Pdh Tj = Tbiv	15.53 kW	14.19 kW





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This information was	generated by	the HP KEYMARK	database on 1	7 Dec 202	0

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
Annual energy consumption Qhe	3856 kWh	4609 kWh

Domestic Hot Water (DHW)

Average Climate

206 I



EN 16147

Declared load profile

XL

Efficiency ηDHW

127 %

COP

3.05

Heating up time

01:09 h:min

Standby power input

43.0 W

Reference hot water temperature

46.9 °C

Colder Climate

Mixed water at 40°C

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	

Warmer Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	



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

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	15.53 kW	14.19 kW	
El input	4.12 kW	5.66 kW	
СОР	3.77	2.51	
Indoor water flow rate	2.63 m³/h	1.53 m³/h	

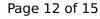
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Average Climate



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
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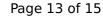


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WTOL	71 °C	71 °C
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РТО	10 W	10 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	6018 kWh	7154 kWh

Colder Climate

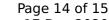
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EN 14825		
	Low temperature	Medium temperature
η_{s}	214 %	163 %
Prated	15.53 kW	14.19 kW
SCOP	5.55	4.28





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Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW





Annual energy consumption Qhe	6898 kWh	8176 kWh
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Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3856 kWh	4609 kWh