Login

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		
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

Configure model	
Model name	WSW196i.2-16 T180 (+W) / 186-16 T180
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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

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°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

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.53 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
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

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 or Pdh Tj = Tdesignh if TOL < Tdesignh	15.53 kW	14.19 kW
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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	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW

Annual energy consumption Qhe	6898 kWh	8176 kWh

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

COP Tj = Tbiv	3.77	2.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.53 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3856 kWh	4609 kWh

Domestic Hot Water (DHW)

Average Climate

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
Mixed water at 40°C	206 l

Colder Climate

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
Mixed water at 40°C	206 l

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Reference hot water temperature	46.9 °C
Mixed water at 40°C	206 l

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

Configure model	
Model name	WSW196i.2-16 (+W) / 186-16
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

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	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

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