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Login

Summary of	Buderus Logatherm WSW196i.2/186 -12	Reg. No.	011-1W0435	
Certificate Holder	Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)	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 -12			
Heat Pump Type	Brine/Water			
Refrigerant	R410A			
Mass of Refrigerant	2 kg			
Certification Date	08.12.2020			
Testing basis	HP KEYMARK certification scheme rules rev. 7			



Model: WSW196i.2-12 T180 (+W) / 186-12 T180

Configure model		
Model name WSW196i.2-12 T180 (+W) / 186-12 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	12.53 kW	11.31 kW	
El input	3.11 kW	4.30 kW	
СОР	4.02	2.63	

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

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}	214 %	159 %
Prated	12.53 kW	11.31 kW
SCOP	5.55	4.18
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.53 kW	11.31 kW
COP Tj = +2°C	4.02	2.63
Pdh Tj = +7°C	7.88 kW	7.26 kW
$COPTj = +7^{\circ}C$	5.27	3.73
Pdh Tj = 12°C	3.86 kW	3.71 kW
COP Tj = 12°C	6.38	5.17
Pdh Tj = Tbiv	12.53 kW	11.31 kW
COP Tj = Tbiv	4.02	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.53 kW	11.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.02	2.63



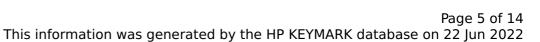


WTOL	71 °C	71 °C
Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3016 kWh	3618 kWh

Colder Climate

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

EN 14825		
	Low temperatur	re Medium temperature
η_{s}	226 %	168 %
Prated	12.53 kW	11.31 kW
SCOP	5.85	4.39
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
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Pdh Tj = -7°C	7.98 kW	7.02 kW
COP Tj = -7°C	5.50	3.98
Pdh Tj = +2°C	4.53 kW	4.30 kW
$COP Tj = +2^{\circ}C$	6.46	4.95
Pdh Tj = $+7^{\circ}$ C	3.89 kW	3.72 kW
$COP Tj = +7^{\circ}C$	6.56	5.28
Pdh Tj = 12°C	3.87 kW	3.73 kW
COP Tj = 12°C	6.17	5.40
Pdh Tj = Tbiv	12.53 kW	11.31 kW
COP Tj = Tbiv	4.02	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.53 kW	11.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.02	2.63
WTOL	71 °C	71 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 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	5276 kWh	6350 kWh

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}	214 %	159 %
Prated	12.53 kW	11.31 kW
SCOP	5.55	4.17
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.11 kW	10.14 kW
COP Tj = -7°C	4.36	2.91
Pdh Tj = +2°C	7.10 kW	6.21 kW
COP Tj = +2°C	5.67	4.28
Pdh Tj = +7°C	4.60 kW	3.71 kW
COP Tj = +7°C	6.35	4.97
Pdh Tj = 12°C	3.92 kW	3.72 kW
COP Tj = 12°C	6.37	5.20
Pdh Tj = Tbiv	12.53 kW	11.31 kW
COP Tj = Tbiv	4.02	2.63





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.53 kW	11.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.02	2.63
WTOL	71 °C	71 °C
Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	4660 kWh	5606 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	129 %	
СОР	3.11	
Heating up time	01:28 h:min	
Standby power input	41.2 W	
Reference hot water temperature	47.3 °C	
Mixed water at 40°C	208	



Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	129 %	
СОР	3.11	
Heating up time	01:28 h:min	
Standby power input	41.2 W	
Reference hot water temperature	47.3 °C	
Mixed water at 40°C	208	

Average Climate

EN 16147		
Deale and lead mosfile	VI	
Declared load profile	XL	
Efficiency ηDHW	129 %	
СОР	3.11	
Heating up time	01:28 h:min	
Standby power input	41.2 W	
Reference hot water temperature	47.3 °C	
Mixed water at 40°C	208	



Model: WSW196i.2-12 (+W) / 186-12

Configure model		
Model name	WSW196i.2-12 (+W) / 186-12	
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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	12.53 kW	11.31 kW	
El input	3.11 kW	4.30 kW	
СОР	4.02	2.63	

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

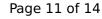
Warmer Climate





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

EN 14825		
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.02	2.63





WTOL	71 °C	71 °C
Poff	14 W	14 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
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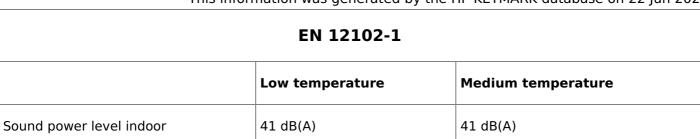
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Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5276 kWh	6350 kWh

Average Climate





CEN heat pump

EN 14825			
	Low temperature	Medium temperature	
η_{s}	214 %	159 %	
Prated	12.53 kW	11.31 kW	
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РТО	14 W	14 W
PSB	14 W	14 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	4660 kWh	5606 kWh