

Page 1 of 15

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Summary of	Bosch Compress 7800i LW 16	Reg. No.	011-1W0433	
Certificate Holder				
Name	Bosch Thermotechnik GmbH	Bosch Thermotechnik GmbH		
Address	Junkersstraße 20 - 24	Junkersstraße 20 - 24 Zip 73249		
City	Wernau	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Subtype title	Bosch Compress 7800i LW 16			
Heat Pump Type	Brine/Water			
Refrigerant	R410A			
Mass of Refrigerant	2.3 kg			
Certification Date	08.12.2020	08.12.2020		
Testing basis	HP KEYMARK certification scheme ru	HP KEYMARK certification scheme rules rev. 7		



Model: CS7800iLW 16 M (+MF)

Configure model		
Model name	CS7800iLW 16 M (+MF)	
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	
СОР	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
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.77	2.51
WTOL	71 °C	71 °C
Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
РСК	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW



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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 temperatu	re 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
$COP Tj = +7^{\circ}C$	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
РТО	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 %
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

Colder 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

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: CS7800iLW 16 (+F)

Configure model		
Model name	CS7800iLW 16 (+F)	
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		Medium temperature
Heat output	15.53 kW	14.19 kW
El input	4.12 kW	5.66 kW
СОР	3.77	2.51

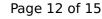
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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
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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

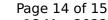
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