

#### Page 1 of 16

#### This information was generated by the HP KEYMARK database on 23 Jun 2022

#### <u>Login</u>

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 Konfor	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 rules rev. 7				



# Model: CS7800i LW 16 M (+MF)

Configure model			
Model name	CS7800i LW 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	15.54 kW	14.19 kW	
El input	4.14 kW	5.68 kW	
СОР	3.75	2.5	

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
$\eta_{s}$	204 %	155 %
Prated	15.53 kW	14.18 kW
SCOP	5.30	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.54 kW	14.19 kW
COP Tj = +2°C	3.75	2.46
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	9.99 kW	9.32 kW
COP Tj = +7°C	5.05	3.63
Cdh Tj = +7 °C	0.99	1.00
Pdh Tj = 12°C	4.89 kW	4.71 kW
COP Tj = 12°C	5.98	4.98
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.54 kW	14.19 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





COP Tj = Tbiv       3.75       2.46         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       15.54 kW       14.19 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       3.75       2.46         Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       1.00       1.00         WTOL       62 °C       62 °C         Poff       11 W       11 W         PTO       11 W       11 W         PCK       0 W       0 W         Supplementary Heater: Type of energy input       Electricity       Electricity         Supplementary Heater: PSUP       0.00 kW       0 kW         Annual energy consumption Qhe       3916 kWh       4658 kWh			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.75	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
WTOL 62 °C 62 °C  Poff 11 W 11 W  PTO 11 W 11 W  PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.46
Poff 11 W 11 W  PTO 11 W 11 W  PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
PTO 11 W 11 W  PSB 11 W 0 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	WTOL	62 °C	62 °C
PSB 11 W 11 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	Poff	11 W	11 W
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	РТО	11 W	11 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0 kW	PSB	11 W	11 W
Supplementary Heater: PSUP 0.00 kW 0 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3916 kWh 4658 kWh	Supplementary Heater: PSUP	0.00 kW	0 kW
	Annual energy consumption Qhe	3916 kWh	4658 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
$\eta_{s}$	211 %	161 %
	I	





Prated	15.53 kW	14.18 kW
SCOP	5.47	4.24
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.06 kW	8.96 kW
$COP Tj = -7^{\circ}C$	5.18	3.86
Cdh Tj = -7 °C	0.99	1.00
Pdh Tj = $+2$ °C	6.2 kW	5.42 kW
$COPTj = +2^{\circ}C$	5.97	4.74
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	4.91 kW	4.76 kW
$COPTj = +7^{\circ}C$	6.07	5.09
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.88 kW	4.75 kW
COP Tj = 12°C	5.89	5.19
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.53 kW	14.19 kW
COP Tj = Tbiv	3.75	2.5
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	0.99





WTOL	62 °C	62 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	6995 kWh	8251 kWh
Cdh Tj = -15 °C	1.00	1.00

# 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	
203 %	154 %	
15.53 kW	14.18 kW	
5.28	4.06	
-10 °C	-10 °C	
	Low temperature 203 % 15.53 kW 5.28	





This information was genera	<u> </u>	
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.91 kW	12.81 kW
COP Tj = -7°C	4.07	2.81
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	8.93 kW	7.91 kW
COP Tj = +2°C	5.39	4.21
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.72 kW	5.4 kW
$COP Tj = +7^{\circ}C$	6.04	4.72
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.89 kW	4.7 kW
COP Tj = 12°C	5.98	4.97
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.54 kW	14.19 kW
COP Tj = Tbiv	3.75	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	62 °C	62 °C
Poff	11 W	11 W
РТО	11 W	11 W



PSB	11 W	11 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	6074 kWh	7218 kWh

# Domestic Hot Water (DHW)

### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	3.05	
Heating up time	1:09 h:min	
Standby power input	43.1 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	1:09 h:min	
Standby power input	43.1 W	
Reference hot water temperature	46.9 °C	
Mixed water at 40°C	206 I	

# **Average Climate**

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	3.05	
Heating up time	1:09 h:min	
Standby power input	43.1 W	
Reference hot water temperature	46.9 °C	
Mixed water at 40°C	206	



# Model: CS7800i LW 16 (+F)

Configure model		
Model name CS7800i LW 16 (+F)		
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

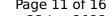
General Data		
Power supply	3x400V 50Hz	

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	15.54 kW	14.19 kW	
El input	4.14 kW	5.68 kW	
СОР	3.75	2.5	

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

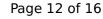




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	204 %	155 %
Prated	15.53 kW	14.18 kW
SCOP	5.30	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.54 kW	14.19 kW
COP Tj = +2°C	3.75	2.46
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	9.99 kW	9.32 kW
COP Tj = +7°C	5.05	3.63
Cdh Tj = +7 °C	0.99	1.00
Pdh Tj = 12°C	4.89 kW	4.71 kW
COP Tj = 12°C	5.98	4.98
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.54 kW	14.19 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



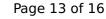


COP Tj = Tbiv	3.75	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	62 °C	62 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	3916 kWh	4658 kWh

### Colder Climate

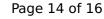
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	211 %	161 %
	I	





This information was genera		
Prated	15.53 kW	14.18 kW
SCOP	5.47	4.24
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	10.06 kW	8.96 kW
$COP Tj = -7^{\circ}C$	5.18	3.86
Cdh Tj = -7 °C	0.99	1.00
Pdh Tj = $+2$ °C	6.2 kW	5.42 kW
COP Tj = +2°C	5.97	4.74
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	4.91 kW	4.76 kW
$COPTj = +7^{\circ}C$	6.07	5.09
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	4.88 kW	4.75 kW
COP Tj = 12°C	5.89	5.19
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.53 kW	14.19 kW
COP Tj = Tbiv	3.75	2.5
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	0.99



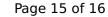


WTOL	62 °C	62 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	6995 kWh	8251 kWh
Cdh Tj = -15 °C	1.00	1.00

# 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	
203 %	154 %	
15.53 kW	14.18 kW	
5.28	4.06	
-10 °C	-10 °C	
	Low temperature 203 % 15.53 kW 5.28	





TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.91 kW	12.81 kW
COP Tj = -7°C	4.07	2.81
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = $+2^{\circ}$ C	8.93 kW	7.91 kW
COP Tj = +2°C	5.39	4.21
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.72 kW	5.4 kW
$COP Tj = +7^{\circ}C$	6.04	4.72
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.89 kW	4.7 kW
COP Tj = 12°C	5.98	4.97
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	15.54 kW	14.19 kW
COP Tj = Tbiv	3.75	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.54 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	62 °C	62 °C
Poff	11 W	11 W
РТО	11 W	11 W



### Page 16 of 16

PSB	11 W	11 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	6074 kWh	7218 kWh