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Login

Summary of	Bosch Compress 7800i LW 12	Reg. No.	011-1W0432		
Certificate Holder					
Name	Bosch Thermotechnik GmbH				
Address	Junkersstraße 20 - 24	Zip	73249		
City	Wernau	Country	Germany		
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH				
Subtype title	Bosch Compress 7800i LW 12				
Heat Pump Type	Brine/Water				
Refrigerant	R410A				
Mass of Refrigerant	2 kg	2 kg			
Certification Date	08.12.2020	08.12.2020			
Testing basis	HP KEYMARK certification scheme rules rev. 7				



Model: CS7800iLW 12 M (+MF)

Configure model			
Model name	CS7800iLW 12 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	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	

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

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	226 %	168 %
Prated	12.53 kW	11.31 kW
SCOP	5.85	4.39





This information was genera		
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.98 kW	7.02 kW
$COPTj = -7^{\circ}C$	5.50	3.98
Pdh Tj = +2°C	4.53 kW	4.30 kW
COP Tj = +2°C	6.46	4.95
Pdh Tj = $+7^{\circ}$ C	3.89 kW	3.72 kW
COP Tj = +7°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
РТО	14 W	14 W
PSB	14 W	14 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW



Annual energy consumption Qhe	5276 kWh	6350 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}	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 = $+2^{\circ}$ C	12.53 kW	11.31 kW
COP Tj = +2°C	4.02	2.63
Pdh Tj = $+7^{\circ}$ C	7.88 kW	7.26 kW
$COP Tj = +7^{\circ}C$	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
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	3016 kWh	3618 kWh

Domestic Hot Water (DHW)

Average 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	

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



Model: CS7800iLW 12 (+F)

Configure model	
Model name CS7800iLW 12 (+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	12.53 kW	11.31 kW
El input	3.11 kW	4.30 kW
СОР	4.02	2.63

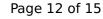
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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 %
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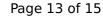


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Annual energy consumption Qhe	4660 kWh	5606 kWh

Colder Climate

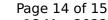
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	ted by the fit RETINA	TR database on 10 Mai 2022
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Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW





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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}	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 = $+2^{\circ}$ C	12.53 kW	11.31 kW
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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