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		
Certification Date	08.12.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: CS7800i LW 12 M (+MF)

Configure model	
Model name	CS7800i LW 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	12.54 kW	11.32 kW
El input	3.14 kW	4.32 kW
COP	4.00	2.62

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	206 %	158 %
Prated	12.54 kW	11.32 kW
SCOP	5.34	4.15
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.54 kW	11.32 kW
COP Tj = +2°C	4	2.62
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	7.89 kW	7.27 kW
COP Tj = +7°C	5.21	3.71
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.87 kW	3.71 kW
COP Tj = 12°C	6.18	5.07
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.54 kW	11.32 kW

COP Tj = Tbiv	4	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.54 kW	11.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4	2.62
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	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	3135 kWh	3648 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	220 %	165 %

Prated	12.54 kW	11.32 kW
SCOP	5.70	4.34
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.99 kW	7.02 kW
COP Tj = -7°C	5.43	3.94
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.54 kW	4.31 kW
COP Tj = +2°C	6.30	4.87
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	3.89 kW	3.72 kW
COP Tj = +7°C	6.35	5.15
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	3.87 kW	3.73 kW
COP Tj = 12°C	5.99	5.31
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	12.53 kW	11.32 kW
COP Tj = Tbiv	4.00	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.54 kW	11.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000

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	0.00 kW
Annual energy consumption Qhe	5419 kWh	6437 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**
η_s	212 %	154 %
Prated	12.54 kW	11.32 kW
SCOP	5.49	4.05
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.12 kW	10.14 kW
COP Tj = -7°C	4.33	2.9
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	7.12 kW	6.21 kW
COP Tj = +2°C	5.61	4.23
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.60 kW	3.72 kW
COP Tj = +7°C	6.23	4.88
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.92 kW	3.72 kW
COP Tj = 12°C	6.15	5.1
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.54 kW	11.32 kW
COP Tj = Tbiv	4	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.54 kW	11.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.62
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	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	4721 kWh	5773 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	129 %
COP	3.11
Heating up time	1:28 h:min
Standby power input	41.2 W
Reference hot water temperature	47.3 °C
Mixed water at 40°C	208 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	129 %
COP	3.11
Heating up time	1:28 h:min
Standby power input	41.2 W
Reference hot water temperature	47.3 °C
Mixed water at 40°C	208 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	129 %
COP	3.11
Heating up time	1:28 h:min
Standby power input	41.2 W
Reference hot water temperature	47.3 °C
Mixed water at 40°C	208 l

Model: CS7800i LW 12 (+F)

Configure model	
Model name	CS7800i LW 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	12.54 kW	11.32 kW
El input	3.14 kW	4.32 kW
COP	4.00	2.62

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
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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
Annual energy consumption Qhe	3135 kWh	3648 kWh

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