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Summary of	Bosch Compress 7800i LW 6 and 8	Reg. No.	011-1W0431	
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 6 and 8			
Heat Pump Type	Brine/Water			
Refrigerant	R410A			
Mass of Refrigerant	1.35 kg			
Certification Date	08.12.2020			
Testing basis	HP KEYMARK certification scheme rules rev. 7			



# Model: CS7800iLW 6 M (+MF)

Configure model			
Model name CS7800iLW 6 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	5.85 kW	5.23 kW		
El input	1.34 kW	1.90 kW		
СОР	4.36	2.76		

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



EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	35 dB(A)	35 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	211 %	147 %	
Prated	6.00 kW	5.00 kW	
SCOP	5.47	3.87	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.17 kW	4.63 kW	
COP Tj = -7°C	4.70	3.01	
Pdh Tj = +2°C	3.15 kW	2.82 kW	
COP Tj = +2°C	5.56	3.91	
Pdh Tj = +7°C	2.02 kW	1.81 kW	
COP Tj = +7°C	6.20	4.59	
Pdh Tj = 12°C	2.12 kW	1.97 kW	
COP Tj = 12°C	6.09	4.63	
Pdh Tj = Tbiv	5.85 kW	5.23 kW	
COP Tj = Tbiv	4.36	2.76	





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °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 kW	0 kW
Annual energy consumption Qhe	2166 kWh	2749 kWh

## Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	35 dB(A)	35 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	222 %	154 %	
Prated	6.00 kW	5.00 kW	
SCOP	5.76	4.04	





	ted by the fit RETINA	TR database on 10 Mai 2022
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.60 kW	3.17 kW
$COP Tj = -7^{\circ}C$	5.57	3.75
Pdh Tj = +2°C	2.15 kW	1.93 kW
COPTj = +2°C	6.25	4.44
Pdh Tj = $+7^{\circ}$ C	2.13 kW	1.98 kW
$COPTj = +7^{\circ}C$	6.29	4.77
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.95	5.04
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 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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-	Annual energy consumption Qhe	2477 kWh	3165 kWh	
-				

## Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	35 dB(A)	35 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	206 %	143 %
Prated	6.00 kW	5.00 kW
SCOP	5.35	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.85 kW	5.23 kW
COP Tj = +2°C	4.36	2.76
Pdh Tj = +7°C	3.76 kW	3.36 kW
COP Tj = +7°C	5.24	3.54
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.14	4.49
Pdh Tj = Tbiv	5.85 kW	5.23 kW





COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °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	1402 kWh	1793 kWh

# Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	135 %
СОР	3.27
Heating up time	01:34 h:min
Standby power input	30.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211

## Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	135 %
СОР	3.27
Heating up time	01:34 h:min
Standby power input	30.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211

## Warmer Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	3.27	
Heating up time	01:34 h:min	
Standby power input	30.9 W	
Reference hot water temperature	47.6 °C	
Mixed water at 40°C	211	

# Model: CS7800iLW 6 (+F)

Configure model		
Model name	CS7800iLW 6 (+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	5.85 kW	5.23 kW
El input	1.34 kW	1.90 kW
СОР	4.36	2.76

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	211 %	147 %
Prated	6.00 kW	5.00 kW
SCOP	5.47	3.87
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.17 kW	4.63 kW
COP Tj = -7°C	4.70	3.01
Pdh Tj = +2°C	3.15 kW	2.82 kW
COP Tj = +2°C	5.56	3.91
Pdh Tj = +7°C	2.02 kW	1.81 kW
COP Tj = +7°C	6.20	4.59
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.09	4.63
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
РТО	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	2166 kWh	2749 kWh

## Colder Climate

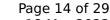
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	222 %	154 %
Prated	6.00 kW	5.00 kW
SCOP	5.76	4.04





Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.60 kW	3.17 kW
COP Tj = -7°C	5.57	3.75
Pdh Tj = +2°C	2.15 kW	1.93 kW
$COP Tj = +2^{\circ}C$	6.25	4.44
Pdh Tj = $+7$ °C	2.13 kW	1.98 kW
$COP Tj = +7^{\circ}C$	6.29	4.77
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.95	5.04
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW





Annual energy consumption Qhe	2477 kWh	3165 kWh	

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	206 %	143 %
Prated	6.00 kW	5.00 kW
SCOP	5.35	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}$ C	5.85 kW	5.23 kW
$COP Tj = +2^{\circ}C$	4.36	2.76
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.36 kW
$COP Tj = +7^{\circ}C$	5.24	3.54
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.14	4.49
Pdh Tj = Tbiv	5.85 kW	5.23 kW



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COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °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 kW	0 kW
Annual energy consumption Qhe	1402 kWh	1793 kWh



# Model: CS7800iLW 8 M (+MF)

Configure model		
Model name	CS7800iLW 8 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	7.61 kW	6.73 kW	
El input	1.85 kW	2.56 kW	
СОР	4.11	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	207 %	152 %
Prated	7.61 kW	6.73 kW
SCOP	5.38	3.99
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.04 kW	5.86 kW
COP Tj = -7°C	4.33	2.95
Pdh Tj = +2°C	4.22 kW	3.75 kW
COP Tj = +2°C	5.46	4.04
Pdh Tj = +7°C	2.66 kW	2.52 kW
COP Tj = +7°C	6.15	4.77
Pdh Tj = 12°C	2.10 kW	1.99 kW
COP Tj = 12°C	6.26	4.95
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °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 kW	0 kW
Annual energy consumption Qhe	2923 kWh	3482 kWh

# Colder Climate

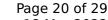
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperatu	re Medium temperature
$\eta_{s}$	220 %	158 %
Prated	7.61 kW	6.73 kW
SCOP	5.70	4.16





	ited by the Hi KETMAI	TR database on 10 Mai 2022
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.58 kW	4.21 kW
$COP Tj = -7^{\circ}C$	5.43	3.79
Pdh Tj = +2°C	3.01 kW	2.50 kW
$COPTj = +2^{\circ}C$	6.16	4.63
Pdh Tj = $+7^{\circ}$ C	2.13 kW	2.01 kW
$COPTj = +7^{\circ}C$	6.51	5.08
Pdh Tj = 12°C	2.10 kW	2.01 kW
COP Tj = 12°C	6.17	5.13
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
РТО	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



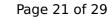


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## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	206 %	153 %
Prated	7.61 kW	6.73 kW
SCOP	5.35	4.02
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.61 kW	6.73 kW
COP Tj = +2°C	4.11	2.63
Pdh Tj = +7°C	5.23 kW	4.14 kW
COP Tj = +7°C	5.10	3.59
Pdh Tj = 12°C	2.66 kW	2.00 kW
COP Tj = 12°C	6.20	4.98
Pdh Tj = Tbiv	7.61 kW	6.73 kW
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COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °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	1899 kWh	2237 kWh

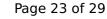
Domestic Hot Water (DHW)

EN 16147	
Declared load profile	XL
Efficiency ηDHW	124 %
СОР	3.01
Heating up time	01:31 h:min
Standby power input	34.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211

## Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	124 %	
СОР	3.01	
Heating up time	01:31 h:min	
Standby power input	34.9 W	
Reference hot water temperature	47.6 °C	
Mixed water at 40°C	211	

## Warmer Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	124 %	
СОР	3.01	
Heating up time	01:31 h:min	
Standby power input	34.9 W	
Reference hot water temperature	47.6 °C	
Mixed water at 40°C	211	



# Model: CS7800iLW 8 (+F)

Configure model		
Model name CS7800iLW 8 (+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	7.61 kW	6.73 kW	
El input	1.85 kW	2.56 kW	
СОР	4.11	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	



EN 12102-1				
	Low temperature Medium temperature			
Sound power level indoor	36 dB(A)	36 dB(A)		

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	207 %	152 %
Prated	7.61 kW	6.73 kW
SCOP	5.38	3.99
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.04 kW	5.86 kW
COP Tj = -7°C	4.33	2.95
Pdh Tj = +2°C	4.22 kW	3.75 kW
COP Tj = +2°C	5.46	4.04
Pdh Tj = +7°C	2.66 kW	2.52 kW
COP Tj = +7°C	6.15	4.77
Pdh Tj = 12°C	2.10 kW	1.99 kW
COP Tj = 12°C	6.26	4.95
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °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	2923 kWh	3482 kWh

## Colder Climate

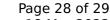
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	220 %	158 %
Prated	7.61 kW	6.73 kW
SCOP	5.70	4.16





	ited by the Hi KETMAI	TR database on 10 Mai 2022
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.58 kW	4.21 kW
$COP Tj = -7^{\circ}C$	5.43	3.79
Pdh Tj = +2°C	3.01 kW	2.50 kW
$COPTj = +2^{\circ}C$	6.16	4.63
Pdh Tj = $+7^{\circ}$ C	2.13 kW	2.01 kW
$COPTj = +7^{\circ}C$	6.51	5.08
Pdh Tj = 12°C	2.10 kW	2.01 kW
COP Tj = 12°C	6.17	5.13
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
РТО	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	3289 kWh	3988 kWh	
		ı	

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	206 %	153 %
Prated	7.61 kW	6.73 kW
SCOP	5.35	4.02
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.61 kW	6.73 kW
COP Tj = +2°C	4.11	2.63
Pdh Tj = +7°C	5.23 kW	4.14 kW
$COP Tj = +7^{\circ}C$	5.10	3.59
Pdh Tj = 12°C	2.66 kW	2.00 kW
COP Tj = 12°C	6.20	4.98
Pdh Tj = Tbiv	7.61 kW	6.73 kW



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COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °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 kW	0 kW
Annual energy consumption Qhe	1899 kWh	2237 kWh