

## Subtype Bosch Compress 7000 LW 80

Certificate Holder	Bosch Thermotechnik GmbH
Address	Junkersstraße 20 - 24
ZIP	73249
City	Wernau
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Bosch Compress 7000 LW 80
Registration number	011-1W0159
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	10.8 kg
Certification Date	09.10.2017

## Model Compress 7000 LW 80

Model name	Compress 7000 LW 80
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	No

## Brine/Water

### EN 14511-4 | Heating

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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	199 %	154 %
Prated	77.96 kW	81.06 kW
SCOP	5.16	4.05
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	68.96 kW	71.71 kW
COP Tj = -7°C	4.51	3.3
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	41.94 kW	42.2 kW
COP Tj = +2°C	5.26	4.23
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	41.86 kW	42.25 kW
COP Tj = +7°C	5.39	4.53
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.78 kW	42.29 kW
COP Tj = 12°C	5.52	4.8
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	77.96 kW	81.06 kW
COP Tj = Tbiv	4.33	3.06

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	77.96 kW	81.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.33	3.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	31189 kWh	41390 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	203 %	161 %
Prated	69.00 kW	69.00 kW
SCOP	5.28	4.21
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	41.94 kW	42.17 kW
COP Tj = -7°C	5.26	4.05
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	41.87 kW	42.23 kW
COP Tj = +2°C	5.37	4.39
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	41.81 kW	42.27 kW
COP Tj = +7°C	5.47	4.69
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.82 kW	42.28 kW
COP Tj = 12°C	5.46	4.89
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	69 kW	69 kW
COP Tj = Tbiv	4.43	3.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	69 kW	69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.43	3.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00

WTOL	68 °C	68 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0 kW
Annual energy consumption Qhe	32245 kWh	40365 kWh
Cdh Tj = -15 °C	1.00	1.00

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	67 dB(A)	67 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	200 %	157 %
Prated	65.00 kW	65.00 kW
SCOP	5.21	4.12
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	65.00 kW	65 kW
COP Tj = +2°C	4.48	3.14
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	42 kW	42.25 kW
COP Tj = +7°C	5.16	3.87
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	41.86 kW	42.25 kW
COP Tj = 12°C	5.39	4.55
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	65 kW	65.00 kW
COP Tj = Tbiv	4.48	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	65 kW	65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	68 °C	68 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0 kW

Annual energy consumption  $Q_{he}$ 

16681 kWh

21062 kWh

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