

**Subtype Bosch Compress 7000 LW 54**

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 54
Registration number	011-1W0156
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	9.5 kg
Certification Date	09.10.2017

**Model Compress 7000 LW 54**

Model name	Compress 7000 LW 54
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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	54.81 kW	57.25 kW
EI input	11.97 kW	18.29 kW
COP	4.58	3.13

**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
$\eta_s$	203 %	155 %
Prated	54.81 kW	57.25 kW
SCOP	5.27	4.08
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	48.49 kW	50.64 kW
COP Tj = -7°C	4.76	3.39
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	28.75 kW	29.03 kW
COP Tj = +2 °C	5.52	4.36
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	28.70 kW	28.85 kW
COP Tj = +7°C	5.68	4.7

Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	28.66 kW	28.71 kW
COP Tj = 12°C	5.82	4.98
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	54.81 kW	57.25 kW
COP Tj = Tbiv	4.58	3.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	54.81 kW	57.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.58	3.13
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	21507 kWh	28973 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
ηs	213 %	166 %
Prated	47.00 kW	48.00 kW
SCOP	5.54	4.35
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	28.75 kW	29.13 kW
COP Tj = -7°C	5.52	4.17
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	28.71 kW	28.93 kW
COP Tj = +2°C	5.64	4.54
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	28.68 kW	28.77 kW
COP Tj = +7°C	5.75	4.86
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	28.68 kW	28.66 kW
COP Tj = 12°C	5.74	5.16
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	47 kW	48 kW
COP Tj = Tbiv	4.68	3.2

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47 kW	48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.68	3.2
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	20931 kWh	27186 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
ηs	210 %	162 %
Prated	44.00 kW	45.00 kW
SCOP	5.45	4.25
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	44.00 kW	45 kW
COP Tj = +2°C	4.72	3.23
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	28.78 kW	29.25 kW
COP Tj = +7°C	5.4	3.98
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	28.71 kW	28.85 kW
COP Tj = 12°C	5.66	4.7
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	44 kW	45.00 kW
COP Tj = Tbiv	4.72	3.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	44 kW	45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	3.23
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	10786 kWh	14151 kWh