



Subject:

Performance data

Application: Refrigeration & AC

Refrigerant	R404A, R507	Compressor refrigeration capacity	57.30 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	57.30 kW
Power supply	50 Hz, 400 V	Power consumption	17.90 kW
Supply frequency	50 Hz	Current draw (400 V)	31.00 A
Evaporating temperature	0.0 °C	Coefficient of performance (COP/EER)	3.20
<i>Evaporating pressure (abs.)</i>	<i>6.04 bar</i>	Condensing capacity	75.20 kW
Condensing temperature	40.0 °C	Mass flow	0.456 kg/s
<i>Condensing pressure (abs.)</i>	<i>18.17 bar</i>	Discharge end temperature	74.8 °C ¹⁾
Suction gas temperature	20 °C		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

Certifications



ASERCOM certified performance data

The performance data of compressors bearing this label has been certified to the strict requirements of ASERCOM.

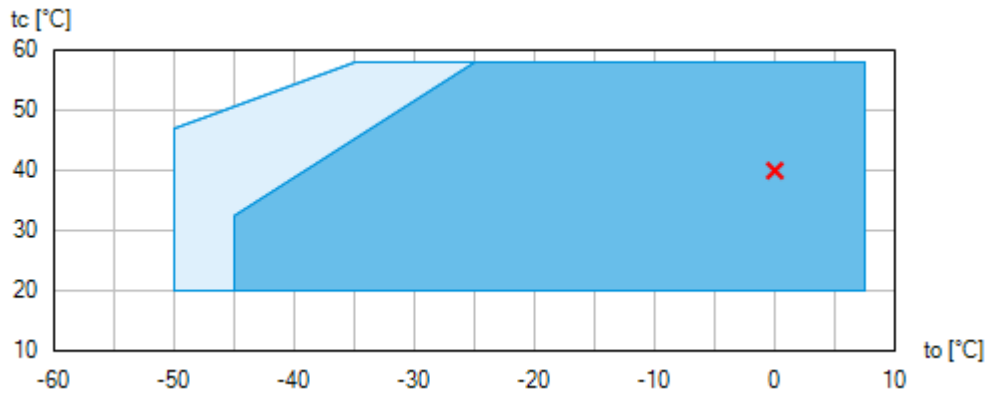
ASERCOM is the Association of European Refrigeration Compressors and Controls Manufacturers. Information about the Association and the constantly updated overview of certified Bock compressors can be found at www.asercom.org.



This certification is based on EN 12900. This signifies: 20 °C suction gas temperature without liquid subcooling at 50 Hz power supply frequency.

1) The stated value of the discharge end temperature is a mere calculated value. Additional cooling and heat dissipation are not considered. Deviations (particularly in deep freezing applications) from the real measured discharge temperature during operation are possible.

Subject:

Operating limits



-  Unlimited application range
-  Supplementary cooling or reduced suction gas temperature ($\Delta t_{oh} < 20K$)

Compressor operation is possible within the limits shown on the diagrams of application. Please note the coloured areas. Compressor application limits should not be chosen for design purposes or continuous operation. Axis values refer to dew point (saturated vapour line).



Subject:

Technical data

Number of cylinders / Bore / Stroke	4 / 75 mm / 47 mm
Displacement 50/60 Hz (1450/1740 ¹ /min)	72,20 / 86,70 m ³ /h
Voltage ¹⁾	380-420V Y/YY -3- 50Hz PW
	440-480V Y/YY -3- 60Hz PW
Winding divided into	66% / 33%
Max. working current ²⁾	42.0 A
Max. power consumption ²⁾	24.5 kW
Starting current (rotor blocked) ²⁾	126.0 / 160.0 A
Motor protection	MP10
Protection terminal box	IP 65
Weight	203 kg
Max. permissible overpressure (g) (LP/HP) ³⁾	19 / 28 bar
Connection suction line SV	42 mm - 1 5/8 "
Connection discharge line DV	28 mm - 1 1/8 "
Lubrication	Oil pump
Oil type R134a, R404A, R407A/C/F, R448A, R449A, R450A, R513A	BOCKlub E55
Oil type R22	BOCKlub A46
Oil charge	3,6 Ltr.
Oil sump heater	230 V - 1 - 50/60 Hz, 140 W
Dimensions Length / Width / Height	815 / 435 / 405 mm

1) Tolerance ($\pm 10\%$) relates to the mean value of the voltage range. Other voltages and current types on request

All data are based on voltage rms values

PW = part winding, motors for part winding starting
 (no start unloaders required)
 Designs for Y/D on request

2) - The stated value for the max. power consumption is valid for the adjusted power supply.

- Starting current (rotor blocked):

- Part winding (PW) motors: Winding 1 / Winding 1+2
- Delta/Star (Δ/Y) motors: Δ / Y

- Take account of the max. operating current / max. power consumption for designing motor contractors, feed lines, fuses and motor protection switches. Motor contractors: Consumption category AC3.

3) LP = Low pressure
 HP = High pressure

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Performance data table

Application: Refrigeration & AC
 Reference temperature: Dew point
 Supply frequency: 50 Hz
 Voltage: 400 V
 Suction gas temperature: 20 °C
 Subcooling (outside cond.): 0 K

tc [°C]		to [°C]									
		0.0	-5.0	-10.0	-15.0	-20.0	-25.0	-30.0	-35.0	-40.0	-45.0
30.0	Q [W]	67600	56400	46500	37700	29900	23300	17600	12900	8970	5940
	P [kW]	15.20	14.50	13.70	12.70	11.50	10.30	9.03	7.72	6.44	5.22
	I [A]	27.10	26.20	25.00	23.70	22.20	20.70	19.30	17.90	16.70	15.60
35.0	Q [W]	62400	51900	42600	34400	27200	21000	15800	11400	7800	5030
	P [kW]	16.60	15.70	14.60	13.30	12.00	10.60	9.16	7.74	6.36	5.08
	I [A]	29.10	27.80	26.20	24.50	22.80	21.00	19.40	17.90	16.60	15.50
40.0	Q [W]	57300	47500	38800	31200	24500	18800	14000	9960	6740	4240
	P [kW]	17.90	16.70	15.30	13.90	12.30	10.80	9.24	7.71	6.26	4.93
	I [A]	31.00	29.30	27.30	25.30	23.20	21.30	19.50	17.90	16.50	15.40
45.0	Q [W]	52100	43100	35000	28000	21900	16700	12300	8660	5780	3560
	P [kW]	19.00	17.60	16.00	14.40	12.60	10.90	9.27	7.65	6.14	4.77
	I [A]	32.90	30.60	28.30	25.90	23.60	21.50	19.50	17.80	16.40	15.20
50.0	Q [W]	47000	38600	31300	24800	19300	14600	10700	7440	4910	2990
	P [kW]	20.10	18.40	16.60	14.70	12.90	11.00	9.26	7.56	5.99	4.60
	I [A]	34.50	31.90	29.20	26.50	23.90	21.60	19.50	17.70	16.30	15.10

Supplementary cooling or reduced suction gas temperature ($\Delta t_{oh} < 20K$)

- to Evaporating temperature
- tc Condensing temperature
- Q Compressor refrigeration capacity
- P Power consumption
- I Current draw

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Subject:

Scope of supply

Semi-hermetic four-cylinder reciprocating compressor with drive motor
Motor unit flanged onto the compressor housing

Oil pump

Possibility of connection of oil level controllers ESK, AC+R or CARLY

Winding protection with PTC resistor sensors and electronic trigger unit MP 10

Oil pump cover with screw-in option for oil differential pressure sensor DELTA-P II

Possibility of connection of oil level controllers Traxoil ¹⁾

Possibility for connection of oil pressure safety switch MP54

Oil charge:

HG: **BOCK**lub A46

HGX: **BOCK**lub E55

Sight glass

Prepared for capacity regulator (1 cylinder cover)

Pressure relief valve

Suction and discharge line valve

Inert gas charge

4 anti-vibration pads enclosed

Accessories

Start unloader 230 V - 1 - 50/60 Hz, IP65, less check valve,
including thermal protection thermostat (posistor tracer)

Start unloader by means of a ESS (Electronic Soft Start), 400 V - 3 - 50/60 Hz, IP20 (Connection clamps IP00) for
installation in switch cabinet ²⁾

Capacity regulator 230 V - 1 - 50/60 Hz, IP65
1 capacity regulator = 50% residual capacity

Oil sump heater 230 V - 1 - 50/60 Hz, 140 W

Oil service valve

Oil pressure safety switch MP54 230 V - 1 - 50/60 Hz, IP20 ²⁾

Water-cooled cylinder covers

Oil differential pressure sensor DELTA-P II 220-240 V - 1 - 50/60 Hz ²⁾

Connection piece suction and discharge valve in welding design

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BOCK® HGX5/830-4 S
Engine: 380-420V Y/YY -3- 50Hz PW
Refrigerant: R404A, R507



Subject:

Thermal protection thermostat per cylinder cover ³⁾

Additional fan
230 V AC - 1 - 50 Hz, 97 W, IP44
230 V AC - 1 - 60 Hz, 128 W ²⁾

Intermediate adapter for discharge line valve

Special voltage and/or frequency (on request)

-
- 1) Only with additional adapter possible
 - 2) Enclosure
 - 3) Mounted

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Subject:

Dimensions and connections

Maße Zubehör / Dimensions Accessories

Ansicht X: Anschlussmöglichkeit für Ölspiegelregulator
 View X: Possibility of connection of oil level regulator

○ Dreilochanschluss für TRAXOIL (3xM6x10)
 Three-hole connection for TRAXOIL (3xM6x10)
 ● Dreilochanschluss für ESK, AC+R, CARLY (3xM6x10)
 Three-hole connection for ESK, AC+R, CARLY (3xM6x10)

① Zusatzlüfter
 Additional fan
 ② Zwischenadapter für Druckabsperrventil
 Intermediate adapter for discharge line valve
 ③ Leistungsregler
 Capacity regulator

	A	B	C	D	E	F	G	H
	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch
HG44e	- ¹⁾	ca. 675	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	ca. 360	-
HA4	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	ca. 400	ca. 5
HG5/725, HG5/830	ca. 835	ca. 730	ca. 465	422	101	141	ca. 440	-
HG5/945	ca. 850	ca. 730	ca. 465	422	101	141	ca. 440	-
HA5	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	ca. 435	-
HG6	ca. 870	ca. 740	ca. 460	421	101	141	ca. 460	-
HA6	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	- ¹⁾	ca. 455	-
HG7	ca. 830	ca. 760	ca. 580	520,5	95	150	ca. 510	ca. 15
HG88e	ca. 920	ca. 880	ca. 680	617	90	145	ca. 610	ca. 20

¹⁾Nicht verfügbar / Not available

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SV	Suction line valve, tube \varnothing ¹⁾	42 mm - 1 5/8 "
DV	Discharge line valve, tube \varnothing ¹⁾	28 mm - 1 1/8 "
A	Connection suction side, not lockable	1/8 " NPTF
A1	Connection suction side, lockable	7/16 " UNF
B	Connection discharge side, not lockable	1/8 " NPTF
B1	Connection discharge side, lockable	7/16 " UNF
C	Connection oil pressure safety switch OIL	7/16 " UNF
D	Connection oil pressure safety switch LP	7/16 " UNF
D1	Connection oil return from oil separator	1/4 " NPTF
E	Connection oil pressure gauge	7/16 " UNF
F	Oil drain	M 22 x 1.5
H	Oil charge plug	M 22 x 1.5
J	Connection oil sump heater	M 22 x 1.5
K	Sight glass	-
L	Connection thermal protection thermostat	1/8 " NPTF
N	Connection capacity regulator	M 45 x 1.5
O	Connection oil level regulator	3 x M 6
ÖV	Connection oil service valve	1/4" NPTF
P	Connection oil differential pressure sensor	M 20 x 1.5
Q	Connection oil temperature sensor	1/8" NPTF

1) Brazing connection

BOCK® HGX5/830-4 S
Engine: 380-420V Y/YY -3- 50Hz PW
Refrigerant: R404A, R507



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Product photo



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