



**Subject:**

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**Performance data**

**Application: Refrigeration & AC**

Refrigerant	R404A, R507	Compressor refrigeration capacity	27.00 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	27.00 kW
Power supply	50 Hz, 400 V	Power consumption	8.33 kW
Supply frequency	50 Hz	Current draw (400 V)	15.30 A
Evaporating temperature	0.0 °C	Coefficient of performance (COP/EER)	3.24
<i>Evaporating pressure (abs.)</i>	<i>6.04 bar</i>	Condensing capacity	35.30 kW
Condensing temperature	40.0 °C	Mass flow	0.215 kg/s
<i>Condensing pressure (abs.)</i>	<i>18.17 bar</i>	Discharge end temperature	74.4 °C <sup>1)</sup>
Suction gas temperature	20 °C		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

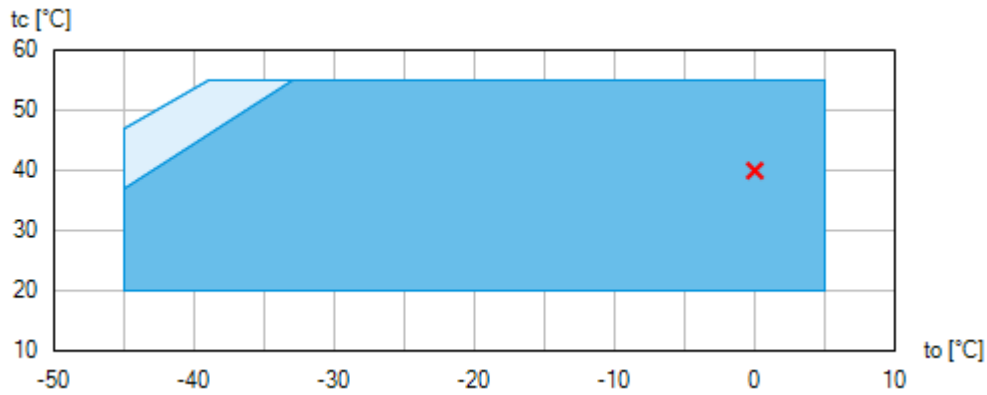
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1) The stated value of the discharge end temperature is a mere calculated value. Additional cooling and heat dissipation are not considered. Deviations (particularly in deep freezing applications) from the real measured discharge temperature during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

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**Operating limits**



-  Unlimited application range
-  HG: supplementary cooling or reduced suction gas temperature HA/F/FK: reduced suction gas temperature
-  Supplementary cooling and 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).

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**Technical data**

Displacement 50/60 Hz (1450/1740 1/min)	33,50 / 40,20 m <sup>3</sup> /h
Voltage <sup>1)</sup>	380-420V Y/YY -3- 50Hz PW
	440-480V Y/YY -3- 60Hz PW
Winding divided into	66% / 33%
Max. working current <sup>2)</sup>	27.0 A
Max. power consumption <sup>2)</sup>	10.0 kW
Starting current (rotor blocked) <sup>2)</sup>	82.0 / 107.0 A
Motor protection	MP10
Protection terminal box	IP 65
Weight	152 kg
Max. permissible overpressure (g) (LP/HP) <sup>3)</sup>	19 / 28 bar
Connection suction line SV	28 mm - 1 1/8 "
Connection discharge line DV	22 mm - 7/8 "
Lubrication	Oil pump
Oil type R134a, R404A, R407A/C/F, R448A, R449A, R450A, R513A	BOCKlub E55
Oil type R22	BOCKlub A46
Oil charge	2,7 Ltr.
Oil sump heater	230 V - 1 - 50/60 Hz, 80 W
Dimensions Length / Width / Height	685 / 330 / 410 mm

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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 ( $\Delta/Y$ ) motors:  $\Delta$  / 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]								
		10.0	5.0	0.0	-5.0	-10.0	-15.0	-20.0	-25.0	-30.0
30.0	Q [W]		37800	31600	26200	21400	17300	13700	10700	8120
	P [kW]		7.41	7.19	6.88	6.49	6.03	5.51	4.95	4.37
	I [A]		14.10	13.90	13.50	13.00	12.50	11.90	11.30	10.70
35.0	Q [W]		35100	29300	24200	19800	15900	12600	9710	7300
	P [kW]		8.11	7.78	7.37	6.88	6.33	5.73	5.09	4.44
	I [A]		15.00	14.60	14.10	13.50	12.80	12.20	11.50	10.80
40.0	Q [W]		32400	27000	22200	18100	14500	11400	8730	6470
	P [kW]		8.77	8.33	7.81	7.23	6.58	5.90	5.19	4.47
	I [A]		15.90	15.30	14.60	13.90	13.10	12.40	11.60	10.80
45.0	Q [W]		29700	24600	20200	16400	13100	10200	7740	5650
	P [kW]		9.37	8.83	8.20	7.52	6.79	6.03	5.24	4.45
	I [A]		16.70	16.00	15.10	14.30	13.40	12.50	11.60	10.80
50.0	Q [W]		26900	22200	18200	14700	11600	8980	6740	4820
	P [kW]		9.93	9.27	8.55	7.77	6.95	6.11	5.25	4.39
	I [A]		17.50	16.60	15.60	14.60	13.60	12.60	11.60	10.80
55.0	Q [W]		24000	19800	16100	12900	10200	7750	5730	3980
	P [kW]		10.40	9.66	8.84	7.97	7.07	6.14	5.21	4.28
	I [A]		18.20	17.10	16.00	14.80	13.70	12.60	11.60	10.70

-  HG: supplementary cooling or reduced suction gas temperature HA/F/FK: reduced suction gas temperature
-  Supplementary cooling and 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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**BOCK® HGX4/385-4 S**  
Engine: 380-420V Y/YY -3- 50Hz PW  
Refrigerant: R404A, R507



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**Product photo**

*Picture similar and/or with accessories.*



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