

BOCK® HGX22e/125-4

Engine: 220-240V Δ / 380-420V Y -3- 50Hz

Refrigerant: R452A



Subject:

Performance data

Application: Refrigeration & AC

Refrigerant	R452A	Compressor refrigeration capacity	5.08 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	5.08 kW
Power supply	50 Hz, 400 V	Power consumption	2.41 kW
Supply frequency	50 Hz	Current draw (400 V)	4.64 A
Evaporating temperature	-10.0 °C	Coefficient of performance (COP/EER)	2.11
<i>Evaporating pressure (abs.)</i>	<i>3.99 bar</i>	Condensing capacity	7.50 kW
Condensing temperature	45.0 °C	Mass flow	0.048 kg/s
<i>Condensing pressure (abs.)</i>	<i>19.83 bar</i>	Discharge end temperature	75.2 °C ¹⁾
Suction gas superheat	10 K		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

Preliminary capacity data.

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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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Technical data

Number of cylinders / Bore / Stroke	2 / 45 mm / 40 mm
Displacement 50/60 Hz (1450/1740 1/min)	11,10 / 13,30 m ³ /h
Voltage 1)	220-240V Δ / 380-420V Y -3- 50Hz
	265-290V Δ / 440-480V Y -3- 60Hz
Max. working current 2)	9.3 / 5.4 A
Max. power consumption 2)	3.0 kW
Starting current (rotor blocked) 2)	69.0 / 40.0 A
Motor protection	INT69 G
Protection terminal box	IP 66
Weight	73 kg
Frequency range 3)	30 -70 Hz
Max. permissible overpressure (g) (LP/HP) 4)	19 / 28 bar
Connection suction line SV	22 mm - 7/8 "
Connection discharge line DV	16 mm - 5/8 "
Lubrication	Oil pump
Oil type R134a, R404A, R407A/C/F, R448A, R449A, R450A, R513A	BOCKlub E55
Oil type R22	BOCKlub A46
Oil charge	1,1 Ltr.
Dimensions Length / Width / Height	468 / 240 / 315 mm
Sound power level L _{WA} 5)	68 dB(A) @ -35 °C / +40 °C
	67 dB(A) @ -10 °C / +45 °C
Sound pressure level L _{pA} 5)	56 dB(A) @ -35 °C / +40 °C
	55 dB(A) @ -10 °C / +45 °C

1) Tolerance (± 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

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) The maximum permissible working current of the compressor (I_{max}) must not be exceeded. Take account of the guidelines for use of frequency inverter (see compressor assembly instruction or selection software).

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- 4) LP = Low pressure
HP = High pressure
- 5) Declared dual-number noise emission values are in accordance with ISO 4871. The corresponding uncertainty to the sound power level is $K_{WA} = 2,5$ dB and to the sound pressure level is $K_{pA} = 2,5$ dB. The values are valid for 50 Hz with the refrigerant R404A at the standard rating points according to EN 12900.
 - A-weighted sound power level L_{WA} (re 1 pW), in decibel. To determine the values, measurement methods of the ISO 3740 standard with accuracy class 2 or higher were used .
 - A-weighted sound pressure level L_{pA} (re 20 μ Pa), in decibel. The values are calculated from the sound power level in accordance with ISO 11203: $L_{pA} = L_{WA} - Q_2$ at a distance of $d = 1$ m to the reference box.

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Subject:

Performance data table

Application: Refrigeration & AC
Reference temperature: Dew point
Supply frequency: 50 Hz
Voltage: 400 V
Suction gas superheat: 10 K
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
15.0	Q [W]										
	P [kW]										
	I [A]										
20.0	Q [W]	11600	9680	7950	6410	5060	3900	2920	2120	1490	1020
	P [kW]	1.69	1.75	1.75	1.71	1.61	1.49	1.34	1.17	1.00	0.83
	I [A]	3.84	3.90	3.90	3.85	3.77	3.65	3.52	3.39	3.26	3.15
25.0	Q [W]	10900	9040	7380	5910	4620	3520	2600	1840	1250	823.00
	P [kW]	1.95	1.96	1.91	1.82	1.69	1.54	1.36	1.17	0.99	0.80
	I [A]	4.11	4.12	4.07	3.97	3.84	3.69	3.54	3.39	3.25	3.14
30.0	Q [W]	10200	8400	6810	5410	4190	3150	2290	1590	1060	670.00
	P [kW]	2.19	2.15	2.06	1.93	1.77	1.58	1.38	1.18	0.98	0.79
	I [A]	4.38	4.33	4.23	4.08	3.91	3.73	3.55	3.39	3.25	3.13
35.0	Q [W]	9450	7750	6240	4920	3770	2800	2010	1370	885.00	552.00
	P [kW]	2.41	2.32	2.19	2.02	1.83	1.62	1.40	1.18	0.97	0.77
	I [A]	4.65	4.54	4.38	4.19	3.98	3.77	3.57	3.39	3.24	3.12
40.0	Q [W]	8710	7090	5670	4420	3360	2470	1740	1170	745.00	466.00
	P [kW]	2.61	2.48	2.31	2.10	1.88	1.65	1.41	1.18	0.96	0.76
	I [A]	4.90	4.73	4.52	4.28	4.03	3.80	3.58	3.39	3.23	3.12
45.0	Q [W]	7950	6420	5080	3930	2950	2140	1490	988.00	631.00	409.00
	P [kW]	2.80	2.62	2.41	2.17	1.92	1.67	1.41	1.17	0.95	0.75
	I [A]	5.14	4.91	4.64	4.36	4.08	3.82	3.58	3.38	3.23	3.11
50.0	Q [W]		5740	4500	3440	2550	1830	1260	829.00	540.00	
	P [kW]		2.74	2.49	2.23	1.96	1.68	1.41	1.16	0.94	
	I [A]		5.06	4.75	4.43	4.11	3.83	3.58	3.38	3.22	
55.0	Q [W]		5040	3900	2940	2150	1520	1040	688.00		
	P [kW]		2.84	2.56	2.27	1.97	1.68	1.41	1.15		
	I [A]		5.20	4.83	4.47	4.13	3.83	3.57	3.37		
60.0	Q [W]		4320	3290	2440	1760	1220	826.00			
	P [kW]		2.92	2.61	2.29	1.98	1.68	1.39			
	I [A]		5.31	4.90	4.50	4.14	3.82	3.56			

Preliminary capacity data.



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 two cylinder reciprocating compressor with drive motor
Single-section compressor housing with hermetically integrated electric motor

Winding protection with PTC resistor sensors and electronic trigger unit INT69 G
115-230 V AC, 50/60 Hz, IP00

Oil pump

Possibility for connection of oil pressure safety switch MP55

Possibility of connection of oil level controllers ESK, Traxoil, AC+R or CARLY ¹⁾

Oil charge:

HG: **BOCK**lub A46

HGX: **BOCK**lub E55

Sight glass

Suction and discharge line valve

Inert gas charge

Accessories

Oil sump heater

110-240 V - 1 - 50/60 Hz, 50-120 W, IP66

PTC heater self-regulating

Oil pressure safety switch MP55 230 V - 1 - 50/60 Hz, IP20 ²⁾

USB converter for INT69 G Diagnose ²⁾

INT69 G Diagnose 115-230 V AC, 50/60 Hz, IP00 (INT69 G not applicable)

Thermal protection thermostat per cylinder cover ³⁾

Hot gas temperature sensor (Pt1000, for external evaluation) ³⁾

Thermal protection thermostat per cylinder cover

Additional fan

230 V AC - 1 - 50 Hz, 97 W, IP44

230 V AC - 1 - 60 Hz, 128 W ²⁾

4 anti-vibration pads enclosed

Special voltage and/or frequency (on request)

1) Only with additional adapter possible

2) Enclosure

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3) Mounted

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Dimensions and connections

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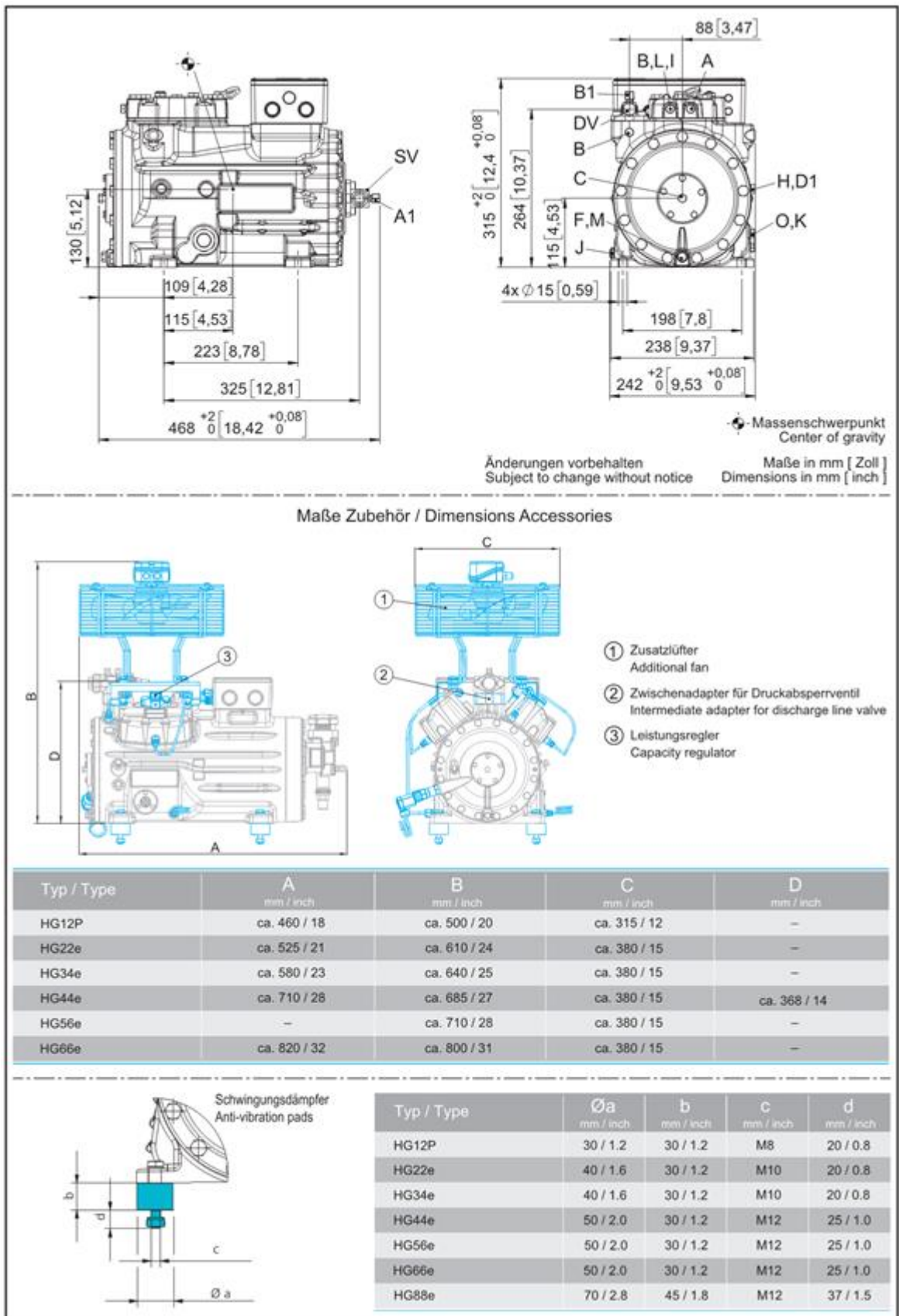
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**Subject:**

SV	Suction line valve, tube \varnothing ¹⁾	22 mm - 7/8 "
DV	Discharge line valve, tube \varnothing ¹⁾	16 mm - 5/8 "
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	1/8 " NPTF
D1	Connection oil return from oil separator	1/4 " NPTF
F	Oil drain	M 12 x 1.5
H	Oil charge plug	1/4 " NPTF
I	Connection hot gas temperature sensor	1/8 " NPTF
J	Connection oil sump heater	3/8 " NPTF
K	Sight glass	1 1/8 " - 18 UNEF
L	Connection thermal protection thermostat	1/8 " NPTF
M	Oil strainer	M 12 x 1.5
O	Connection oil level regulator	1 1/8 " - 18 UNEF

1) Brazing connection

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Product photo



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