



**Subject:**

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**Performance data**

**Application: Refrigeration & AC**

Refrigerant	R452A	Compressor refrigeration capacity	55.70 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	55.70 kW
Power supply	50 Hz, 400 V	Power consumption	24.30 kW
Supply frequency	50 Hz	Current draw (400 V)	42.70 A
Evaporating temperature	-10.0 °C	Coefficient of performance (COP/EER)	2.29
<i>Evaporating pressure (abs.)</i>	<i>3.99 bar</i>	Condensing capacity	80.00 kW
Condensing temperature	45.0 °C	Mass flow	0.529 kg/s
<i>Condensing pressure (abs.)</i>	<i>19.83 bar</i>	Discharge end temperature	71.6 °C <sup>1)</sup>
Suction gas superheat	10 K		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

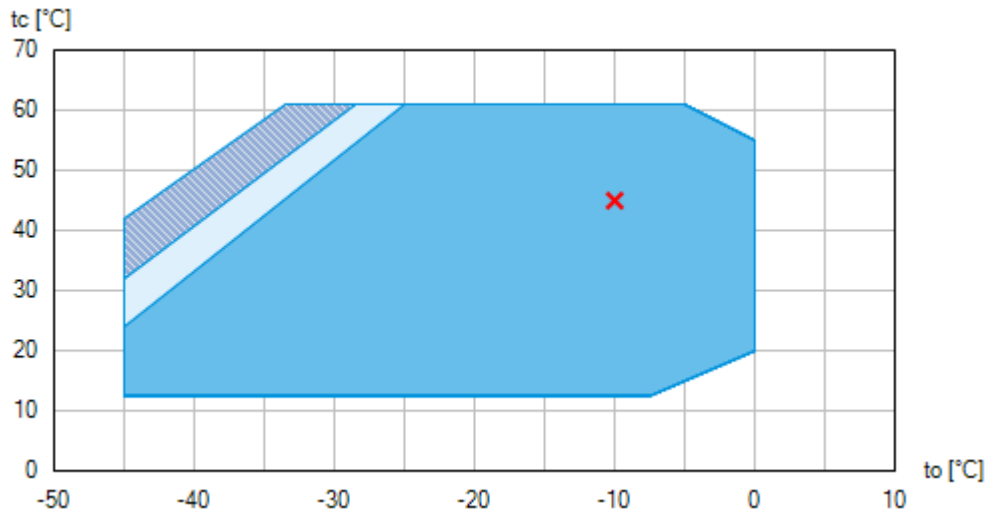
*Preliminary capacity data.*




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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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## Operating limits



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

Number of cylinders / Bore / Stroke	6 / 70 mm / 58 mm
Displacement 50/60 Hz (1450/1740 <sup>1</sup> /min)	116,5 / 139,8 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	50% / 50%
Max. working current <sup>2)</sup>	53.7 A
Max. power consumption <sup>2)</sup>	31.9 kW
Starting current (rotor blocked) <sup>2)</sup>	170.0 / 275.0 A
Motor protection	INT69 G
Protection terminal box	IP 66
Weight	282 kg
Frequency range <sup>3)</sup>	25 - 60 Hz
Max. permissible overpressure (g) (LP/HP) <sup>4)</sup>	19 / 28 bar
Connection suction line SV	54 mm - 2 1/8 "
Connection discharge line DV	42 mm - 1 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	4,4 Ltr.
Oil sump heater	230 V - 1 - 50/60 Hz, 160 W
Dimensions Length / Width / Height	810 / 557 / 467 mm
Sound power level L <sub>WA</sub> <sup>5)</sup>	87 dB(A) @ -35 °C / +40 °C
	82 dB(A) @ -10 °C / +45 °C
Sound pressure level L <sub>pA</sub> <sup>5)</sup>	74 dB(A) @ -35 °C / +40 °C
	68 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

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

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- 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) 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).
- 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  $\mu$ 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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**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
10.0	Q [W] P [kW] I [A]										
15.0	Q [W] P [kW] I [A]		111000 16.00 32.40	90600 15.70 32.10	73400 15.10 31.40	58700 14.20 30.40	46100 13.00 29.30	35600 11.70 28.00	26800 10.30 26.70	19700 8.85 25.40	13900 7.37 24.30
20.0	Q [W] P [kW] I [A]	126000 18.40 35.20	104000 18.10 34.80	85100 17.50 34.10	68700 16.50 33.00	54700 15.30 31.60	42700 13.90 30.10	32700 12.30 28.60	24300 10.70 27.00	17500 9.04 25.60	11900 7.41 24.30
25.0	Q [W] P [kW] I [A]	119000 20.80 38.10	97500 20.10 37.30	79500 19.10 36.00	63900 17.80 34.50	50600 16.30 32.70	39300 14.60 30.90	29800 12.80 29.00	21900 10.90 27.30	15400 9.15 25.70	10100 7.39 24.30
30.0	Q [W] P [kW] I [A]	111000 23.00 41.00	90800 22.00 39.60	73700 20.60 37.90	59000 19.00 35.80	46400 17.10 33.70	35800 15.20 31.50	26900 13.20 29.40	19500 11.10 27.50	13400 9.18 25.70	8400 7.28 24.20
35.0	Q [W] P [kW] I [A]	103000 25.10 43.90	83900 23.70 41.90	67800 22.00 39.60	54000 20.00 37.10	42200 17.90 34.60	32300 15.70 32.10	24000 13.50 29.70	17200 11.20 27.50	11500 9.12 25.70	6870 7.10 24.10
40.0	Q [W] P [kW] I [A]	94400 27.10 46.60	76900 25.20 44.10	61800 23.20 41.20	48900 20.90 38.30	38000 18.50 35.30	28900 16.10 32.50	21300 13.60 29.90	15000 11.20 27.50	9760 8.97 25.50	5510 6.84 23.90
45.0	Q [W] P [kW] I [A]	86100 28.90 49.20	69700 26.70 46.00	55700 24.30 42.70	43800 21.70 39.30	33800 19.10 36.00	25400 16.40 32.80	18500 13.70 30.00	12900 11.10 27.40	8160 8.73 25.30	
50.0	Q [W] P [kW] I [A]	77600 30.50 51.60	62400 27.90 47.90	49500 25.20 44.00	38600 22.30 40.10	29500 19.40 36.40	22000 16.50 33.00	15900 13.70 29.90	10900 10.90 27.30	6710 8.38 25.10	
55.0	Q [W] P [kW] I [A]	69000 31.90 53.90	55000 29.00 49.50	43200 26.00 45.10	33400 22.80 40.80	25300 19.70 36.70	18700 16.50 33.00	13300 13.50 29.70	8930 10.60 27.00		
60.0	Q [W] P [kW] I [A]		47400 30.00 50.90	36800 26.60 46.00	28100 23.20 41.20	21100 19.80 36.80	15400 16.40 32.90	10900 13.20 29.40			

*Preliminary capacity data.*

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

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**BOCK® HGX66e/1340-4**  
Engine: 380-420V Y/YY -3- 50Hz PW  
Refrigerant: R452A



**Subject:**

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*t<sub>o</sub>* Evaporating temperature  
*t<sub>c</sub>* Condensing temperature  
*Q* Compressor refrigeration capacity  
*P* Power consumption  
*I* Current draw

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**Subject:**

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**Scope of supply**

Semi-hermetic six-cylinder reciprocating compressor with drive motor for part winding start  
Single-section compressor housing with hermetically integrated electric motor

Rear bearing flange prepared for oil differential pressure sensor DELTA-P II

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

Oil pump

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

Possibility of connection of oil level controllers Traxoil <sup>1)</sup>

Oil charge:  
HG: **BOCK**lub A46  
HGX: **BOCK**lub E55

Sight glass

Internal safety valve

Suction and discharge line valve

Inert gas charge

**Accessories**

Capacity regulator 110 V - 1 - 50/60 Hz, IP65  
1-2 capacity regulator = 66/33% residual capacity <sup>2)</sup>

Capacity regulator 230 V - 1 - 50/60 Hz, IP65  
1-2 capacity regulator = 66/33% residual capacity <sup>2)</sup>

Cylinder cover prepared for capacity regulator <sup>3)</sup>

Oil sump heater 230 V - 1 - 50/60 Hz, 160 W <sup>3)</sup>

USB converter for INT69 G Diagnose <sup>4)</sup>

Oil service valve

INT69 G Diagnose 115-230 V AC, 50/60 Hz, IP00 (INT69 G not applicable) <sup>3)</sup>

Oil pressure safety switch MP54 230 V - 1 - 50/60 Hz, IP20 <sup>4)</sup>

INT69 GTML Diagnose 115-230 V AC, 50/60 Hz, IP00, including oil differential pressure sensor INT250G,  
thermal protection thermostat per cylinder covers, (INT69 G not applicable) <sup>4)</sup>

Thermal protection thermostat per cylinder cover <sup>3)</sup>

Oil differential pressure sensor DELTA-P II 220-240 V - 1 - 50/60 Hz <sup>4)</sup>

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Connection piece suction and discharge valve in welding design

Oil temperature sensor (Pt1000, for external evaluation) <sup>3)</sup>

Hot gas temperature sensor (Pt1000, for external evaluation) <sup>3)</sup>

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 <sup>4)</sup>

Step protection <sup>4)</sup>

Injection nozzle for liquid injection <sup>4)</sup>

4 anti-vibration pads enclosed

Special voltage and/or frequency (on request)

- 
- 1) Only with additional adapter possible
  - 2) Capacity regulator premounted, control unit enclosed
  - 3) Mounted
  - 4) Enclosure



**BOCK® HGX66e/1340-4**  
Engine: 380-420V Y/YY -3- 50Hz PW  
Refrigerant: R452A



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## **Dimensions and connections**

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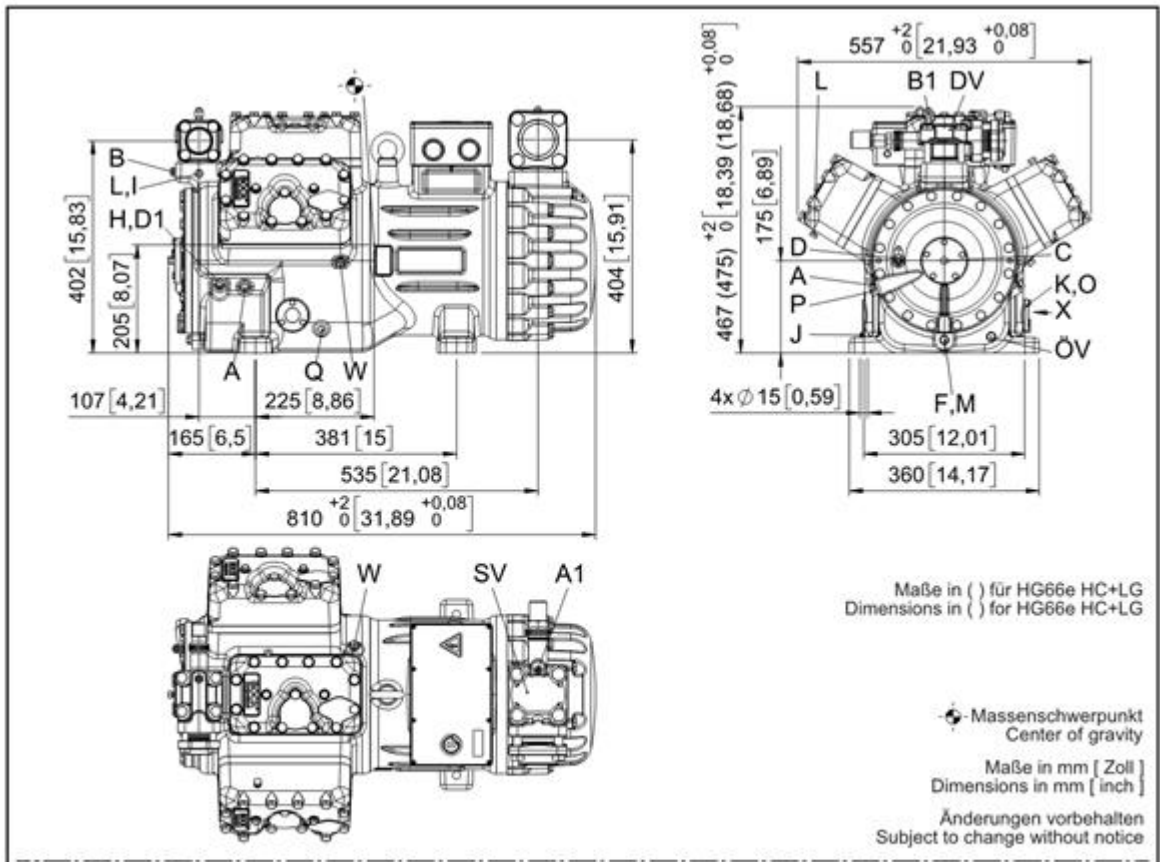
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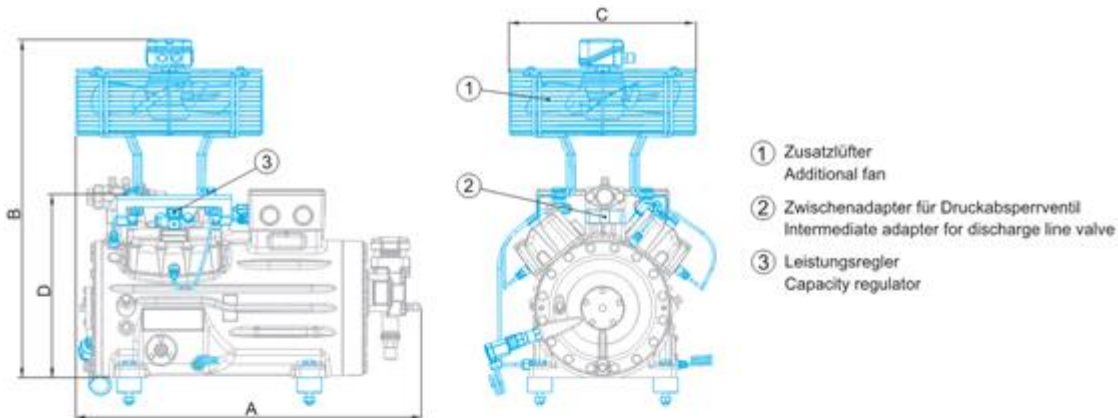
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**Subject:**



**Maße Zubehör / Dimensions Accessories**



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

Typ / Type	A mm / inch	B mm / inch	C mm / inch	D mm / inch
HG12P	ca. 460 / 18	ca. 500 / 20	ca. 315 / 12	-
HG22e	ca. 525 / 21	ca. 610 / 24	ca. 380 / 15	-
HG34e	ca. 580 / 23	ca. 640 / 25	ca. 380 / 15	-
HG44e	ca. 710 / 28	ca. 685 / 27	ca. 380 / 15	ca. 368 / 14
HG56e	-	ca. 710 / 28	ca. 380 / 15	-
HG66e	ca. 820 / 32	ca. 800 / 31	ca. 380 / 15	-

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



Typ / Type	Øa mm / inch	b mm / inch	c mm / inch	d mm / inch
HG12P	30 / 1.2	30 / 1.2	M8	20 / 0.8
HG22e	40 / 1.6	30 / 1.2	M10	20 / 0.8
HG34e	40 / 1.6	30 / 1.2	M10	20 / 0.8
HG44e	50 / 2.0	30 / 1.2	M12	25 / 1.0
HG56e	50 / 2.0	30 / 1.2	M12	25 / 1.0
HG66e	50 / 2.0	30 / 1.2	M12	25 / 1.0
HG88e	70 / 2.8	45 / 1.8	M12	37 / 1.5

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SV	Suction line valve, tube $\varnothing$ <sup>1)</sup>	54 mm - 2 1/8 "
DV	Discharge line valve, tube $\varnothing$ <sup>1)</sup>	42 mm - 1 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
D	Connection oil pressure safety switch LP	7/16 " UNF
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	3 x M 6
L	Connection thermal protection thermostat	1/8 " NPTF
M	Oil strainer	M 12 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
W	Connection for refrigerant injection	2 x 1/8" NPTF

1) Brazing connection

**BOCK® HGX66e/1340-4**  
Engine: 380-420V Y/YY -3- 50Hz PW  
Refrigerant: R452A



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**Product photo**



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