

HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Performance data

Application: Refrigeration & AC

Refrigerant	R404A, R507	Compressor refrigeration capacity	86.30 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	86.30 kW
Power supply	50 Hz, 400 V	Power consumption	36.80 kW
Supply frequency	50 Hz	Current draw (400 V)	66.70 A
Evaporating temperature	5.0 °C	Coefficient of performance (COP/EER)	2.35
<i>Evaporating pressure (abs.)</i>	<i>7.06 bar</i>	Condensing capacity	124.00 kW
Condensing temperature	50.0 °C	Mass flow	0.813 kg/s
<i>Condensing pressure (abs.)</i>	<i>22.98 bar</i>	Discharge end temperature	83.7 °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 to change without notice

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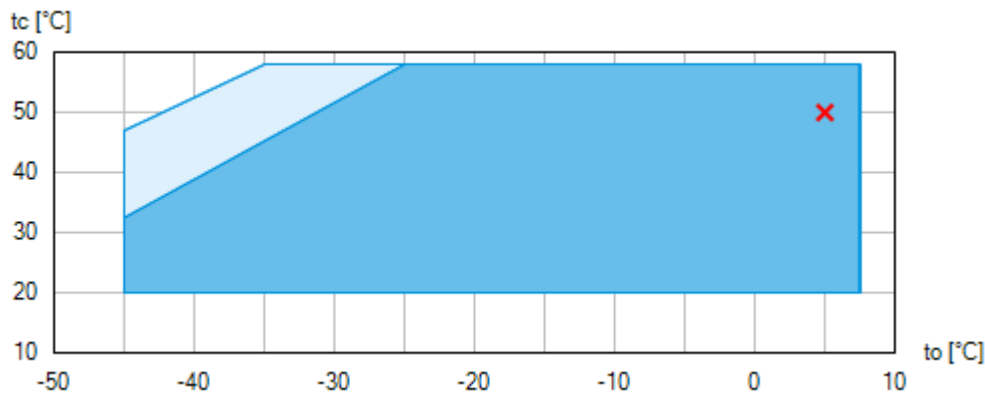
HGX6/1240-4 S



Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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).

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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Technical data

Number of cylinders / Bore / Stroke	4 / 75 mm / 70 mm
Displacement 50/60 Hz (1450/1740 1/min)	107,60 / 129,10 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⁾	75.0 A
Max. power consumption ²⁾	41.8 kW
Starting current (rotor blocked) ²⁾	204.0 / 250.0 A
Motor protection	MP10
Protection terminal box	IP 65
Weight	224 kg
Max. permissible overpressure (g) (LP/HP) ³⁾	19 / 28 bar
Connection suction line SV	54 mm - 2 1/8 "
Connection discharge line DV	35 mm - 1 3/8 "
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	850 / 455 / 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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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

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]	103000	85300	70000	56800	45300	35600	27400	20600	15100	10600
	P [kW]	26.00	24.50	22.80	20.90	18.90	16.80	14.80	12.70	10.70	8.87
	I [A]	51.40	49.50	47.40	45.20	42.90	40.80	38.70	36.90	35.20	33.80
35.0	Q [W]	95000	78700	64500	52100	41600	32600	25000	18700	13600	9310
	P [kW]	28.20	26.30	24.20	22.00	19.70	17.30	15.00	12.80	10.70	8.73
	I [A]	54.30	51.70	49.10	46.40	43.80	41.30	39.00	36.90	35.20	33.70
40.0	Q [W]	87200	72100	58900	47600	37800	29600	22600	16900	12100	8120
	P [kW]	30.20	27.90	25.40	22.90	20.30	17.70	15.20	12.80	10.60	8.57
	I [A]	57.10	53.90	50.70	47.50	44.50	41.70	39.20	37.00	35.10	33.60
45.0	Q [W]	79500	65600	53500	43100	34200	26700	20400	15100	10700	7000
	P [kW]	32.10	29.40	26.60	23.70	20.90	18.10	15.40	12.80	10.50	8.41
	I [A]	59.70	55.90	52.10	48.50	45.10	42.00	39.30	37.00	35.10	33.50
50.0	Q [W]	71800	59100	48100	38700	30600	23800	18100	13400	9310	
	P [kW]	33.80	30.70	27.60	24.50	21.40	18.40	15.50	12.80	10.40	
	I [A]	62.30	57.80	53.50	49.50	45.70	42.40	39.40	37.00	35.00	



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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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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

Thermal protection thermostat per cylinder cover ³⁾

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

Oil service valve

Connection piece suction and discharge valve in welding design

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

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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Water-cooled cylinder covers

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 ²⁾

Special voltage and/or frequency (on request)

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

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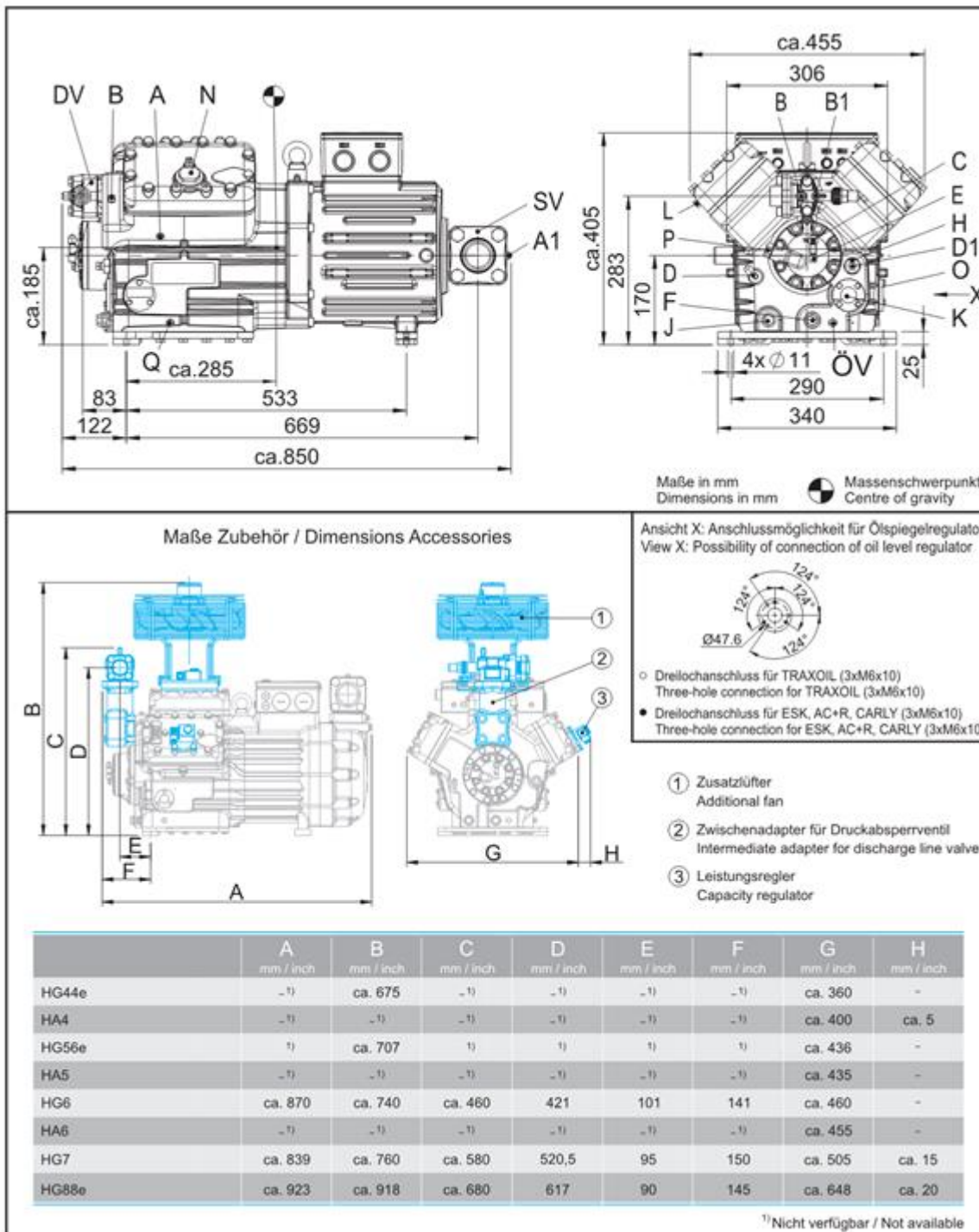
HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Dimensions and connections



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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

SV	Suction line valve, tube \varnothing ¹⁾	54 mm - 2 1/8 "
DV	Discharge line valve, tube \varnothing ¹⁾	35 mm - 1 3/8 "
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

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HGX6/1240-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Product photo



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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Performance data

Application: Refrigeration & AC

Refrigerant	R404A, R507	Compressor refrigeration capacity	73.60 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	73.60 kW
Power supply	50 Hz, 400 V	Power consumption	29.80 kW
Supply frequency	50 Hz	Current draw (400 V)	52.10 A
Evaporating temperature	5.0 °C	Coefficient of performance (COP/EER)	2.47
<i>Evaporating pressure (abs.)</i>	<i>7.06 bar</i>	Condensing capacity	104.00 kW
Condensing temperature	50.0 °C	Mass flow	0.693 kg/s
<i>Condensing pressure (abs.)</i>	<i>22.98 bar</i>	Discharge end temperature	81.9 °C ¹⁾
Suction gas temperature	20 °C		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

Certifications



ASERCOM certified performance data

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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.

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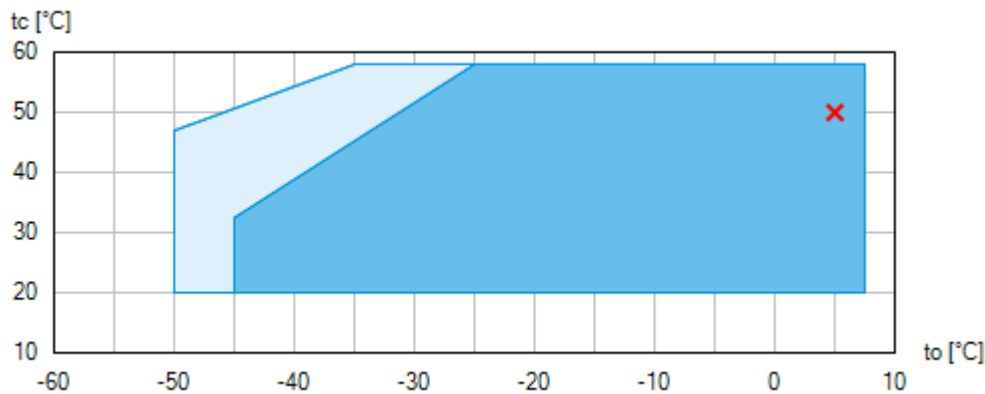
HGX6/1080-4 S



Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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).

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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Technical data

Number of cylinders / Bore / Stroke	4 / 70 mm / 70 mm
Displacement 50/60 Hz (1450/1740 1/min)	93,70 / 112,40 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⁾	59.0 A
Max. power consumption ²⁾	33.7 kW
Starting current (rotor blocked) ²⁾	156.0 / 193.0 A
Motor protection	MP10
Protection terminal box	IP 65
Weight	223 kg
Max. permissible overpressure (g) (LP/HP) ³⁾	19 / 28 bar
Connection suction line SV	54 mm - 2 1/8 "
Connection discharge line DV	35 mm - 1 3/8 "
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	850 / 455 / 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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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

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]		105000	87900	73000	60000	48700	38900	30600	23600	
	P [kW]		21.80	21.20	20.30	19.00	17.50	15.90	14.10	12.30	
	I [A]		39.40	38.40	36.90	35.00	32.80	30.40	27.90	25.40	
35.0	Q [W]		96800	81100	67300	55200	44700	35700	27900	21500	
	P [kW]		24.10	23.10	21.70	20.20	18.40	16.50	14.60	12.60	
	I [A]		42.90	41.30	39.20	36.80	34.10	31.30	28.50	25.80	
40.0	Q [W]		89000	74500	61700	50500	40800	32500	25400	19400	
	P [kW]		26.10	24.80	23.10	21.20	19.20	17.10	14.90	12.80	
	I [A]		46.20	44.00	41.40	38.40	35.30	32.10	29.00	26.00	
45.0	Q [W]		81300	67900	56100	45800	36900	29300	22900	17400	
	P [kW]		28.00	26.30	24.30	22.20	19.90	17.60	15.20	12.90	
	I [A]		49.20	46.50	43.30	39.90	36.40	32.80	29.40	26.20	
50.0	Q [W]		73600	61300	50500	41200	33100	26200	20400	15500	
	P [kW]		29.80	27.70	25.50	23.00	20.50	18.00	15.40	13.00	
	I [A]		52.10	48.80	45.10	41.20	37.30	33.40	29.70	26.30	
55.0	Q [W]		66000	54800	45000	36600	29400	23200	18000	13600	
	P [kW]		31.40	29.00	26.50	23.80	21.00	18.30	15.60	13.00	
	I [A]		54.70	50.90	46.70	42.40	38.10	33.90	30.00	26.40	

 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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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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

Thermal protection thermostat per cylinder cover ³⁾

Connection piece suction and discharge valve in welding design

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

Oil service valve

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

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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Water-cooled cylinder covers

Bock Compressor Management BCM2000 including oil pressure control, oil temperature control (NTC), thermal protection thermostat per cylinder covers

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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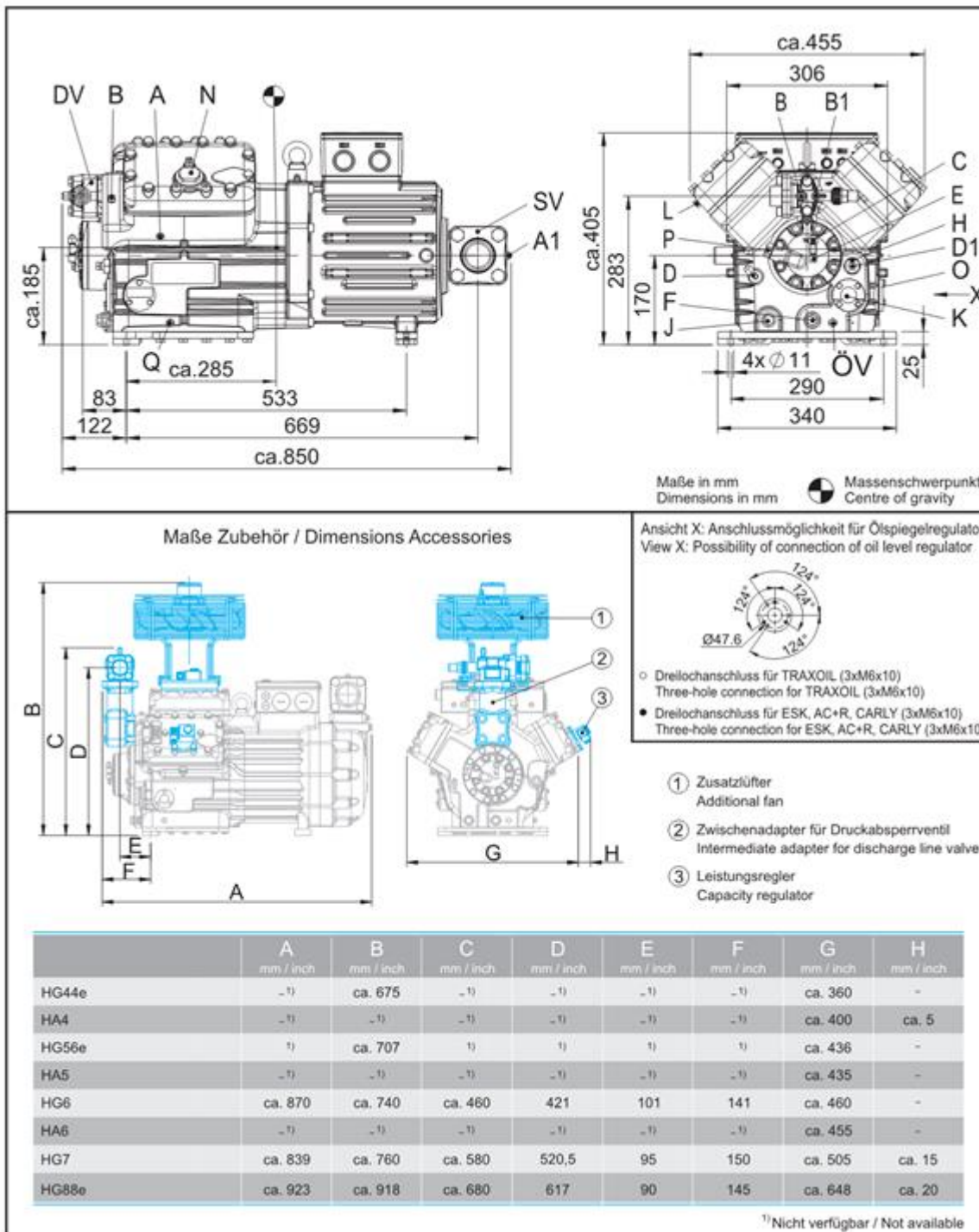
HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Dimensions and connections



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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

SV	Suction line valve, tube \varnothing ¹⁾	54 mm - 2 1/8 "
DV	Discharge line valve, tube \varnothing ¹⁾	35 mm - 1 3/8 "
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

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HGX6/1080-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Product photo



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HGX5/945-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Performance data

Application: Refrigeration & AC

Refrigerant	R404A, R507	Compressor refrigeration capacity	63.70 kW
Reference temperature	Dew point	Evaporator refrigeration capacity	63.70 kW
Power supply	50 Hz, 400 V	Power consumption	25.00 kW
Supply frequency	50 Hz	Current draw (400 V)	42.80 A
Evaporating temperature	5.0 °C	Coefficient of performance (COP/EER)	2.54
<i>Evaporating pressure (abs.)</i>	<i>7.06 bar</i>	Condensing capacity	88.80 kW
Condensing temperature	50.0 °C	Mass flow	0.600 kg/s
<i>Condensing pressure (abs.)</i>	<i>22.98 bar</i>	Discharge end temperature	80.9 °C ¹⁾
Suction gas temperature	20 °C		
Subcooling (outside cond.)	0 K		
Usable superheat	100%		

Certifications



ASERCOM certified performance 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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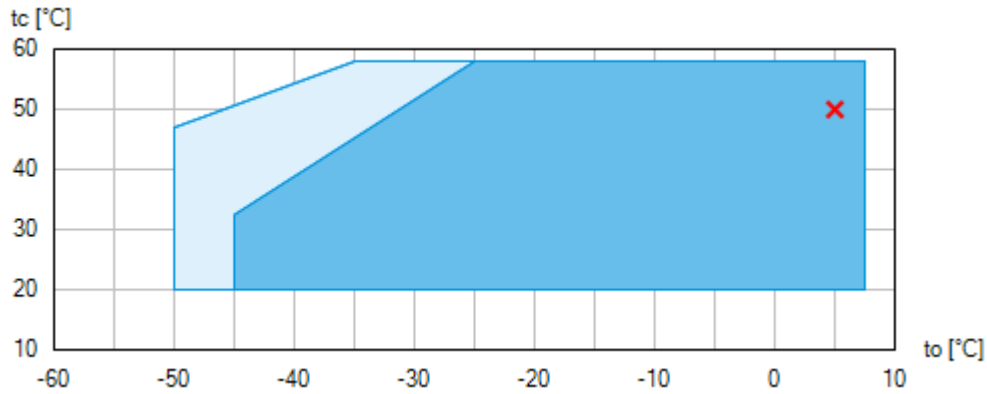
HGX5/945-4 S



Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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).

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HGX5/945-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Technical data

Number of cylinders / Bore / Stroke	4 / 80 mm / 47 mm
Displacement 50/60 Hz (1450/1740 1/min)	82,20 / 98,60 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⁾	49.0 A
Max. power consumption ²⁾	28.6 kW
Starting current (rotor blocked) ²⁾	126.0 / 160.0 A
Motor protection	MP10
Protection terminal box	IP 65
Weight	205 kg
Max. permissible overpressure (g) (LP/HP) ³⁾	19 / 28 bar
Connection suction line SV	54 mm - 2 1/8 "
Connection discharge line DV	35 mm - 1 3/8 "
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	830 / 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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Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

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]	77300	64400	53000	43100	34500	27200	20900	15700	11300	7560
	P [kW]	17.70	16.90	16.00	14.90	13.60	12.30	10.80	9.34	7.77	6.16
	I [A]	30.80	29.60	28.20	26.60	24.90	23.10	21.40	19.60	17.90	16.40
35.0	Q [W]	71300	59300	48700	39600	31600	24800	19100	14100	9950	6430
	P [kW]	19.10	18.10	17.00	15.70	14.20	12.70	11.10	9.44	7.71	5.96
	I [A]	33.00	31.50	29.70	27.80	25.80	23.70	21.70	19.70	17.90	16.20
40.0	Q [W]	65300	54200	44500	36000	28700	22500	17100	12600	8630	5260
	P [kW]	20.60	19.40	18.00	16.50	14.80	13.10	11.30	9.45	7.54	5.63
	I [A]	35.40	33.40	31.20	28.90	26.60	24.20	21.90	19.70	17.70	16.00
45.0	Q [W]	59200	49000	40100	32500	25800	20100	15200	11000	7280	4060
	P [kW]	22.00	20.60	18.90	17.20	15.30	13.40	11.40	9.33	7.25	5.16
	I [A]	37.70	35.30	32.70	30.00	27.30	24.60	22.00	19.60	17.40	15.60
50.0	Q [W]	53100	43900	35800	28900	22900	17700	13200	9300	5900	2840
	P [kW]	23.40	21.70	19.80	17.80	15.70	13.50	11.30	9.09	6.81	4.53
	I [A]	40.10	37.20	34.10	31.00	27.90	24.80	22.00	19.30	17.00	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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HGX5/945-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

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

Thermal protection thermostat per cylinder cover ³⁾

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

Oil service valve

Connection piece suction and discharge valve in welding design

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

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HGX5/945-4 S

Engine: 380-420V Y/YY -3- 50Hz PW

Refrigerant: R404A, R507

Subject:

Water-cooled cylinder covers

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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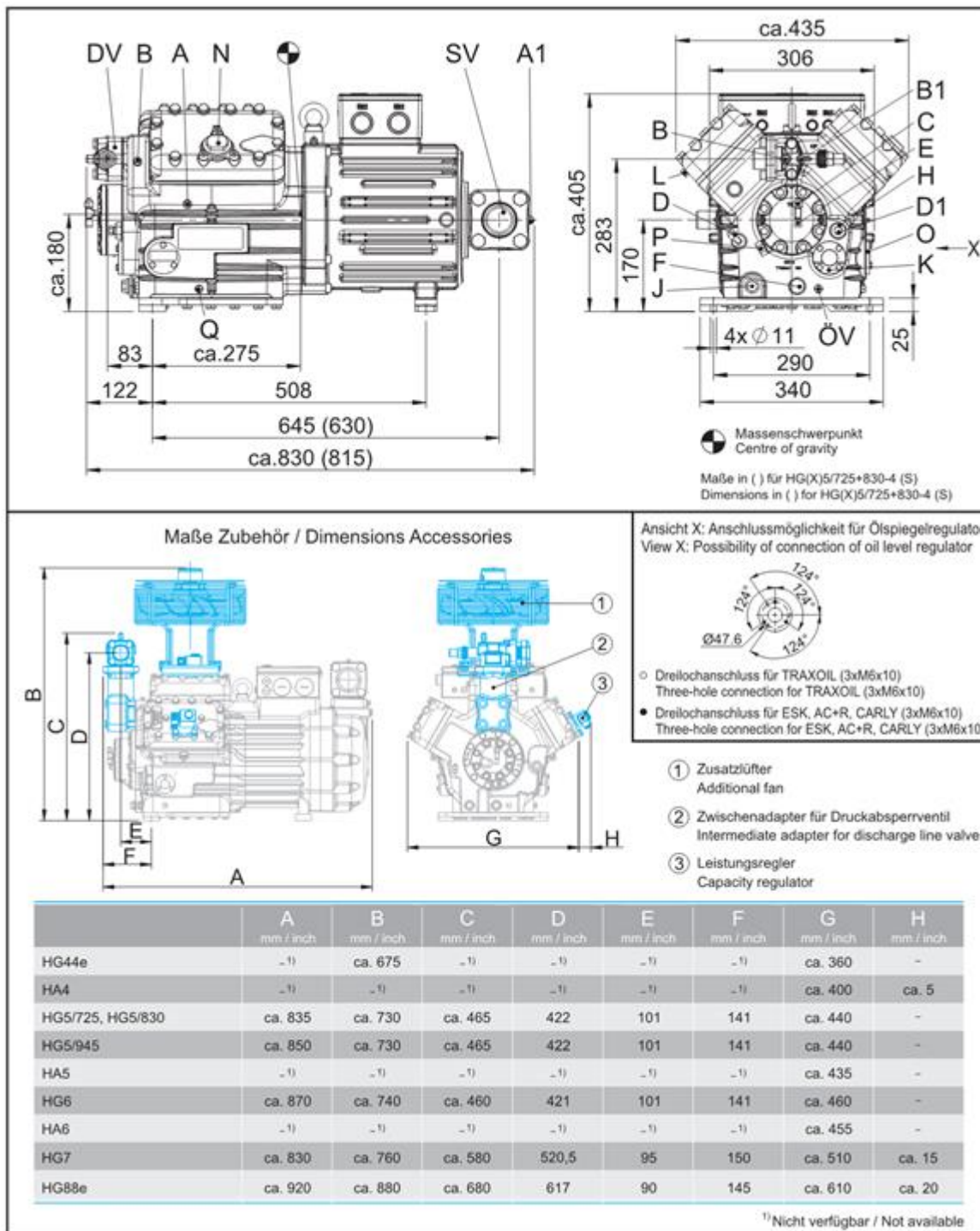
HGX5/945-4 S

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Refrigerant: R404A, R507

Subject:

Dimensions and connections



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Subject:

SV	Suction line valve, tube \varnothing ¹⁾	54 mm - 2 1/8 "
DV	Discharge line valve, tube \varnothing ¹⁾	35 mm - 1 3/8 "
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

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Engine: 380-420V Y/YY -3- 50Hz PW

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Subject:

Product photo



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