

Bock Selection Tool VAP

New in version **VAP 11.11.0** (*online*)

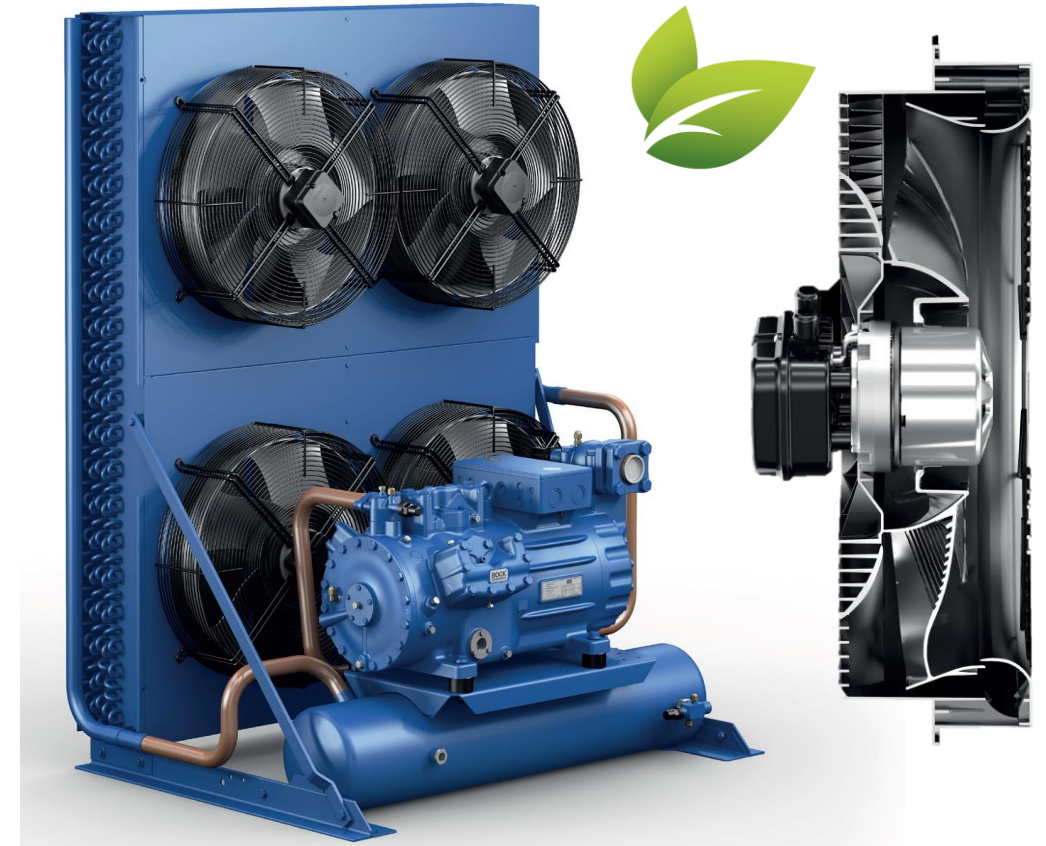
BOCK

colour the world
of tomorrow

Semi-hermetic condensing units: New condenser fans

SHG-L, SHA-L & SHGZ7-L

- **Conversion of condenser fans** of the 1-stage [SHG-L](#) and [SHA-L](#), as well as the 2-stage [SHGZ-L](#) air-cooled condensing units to **high-efficiency AC fans** in the course of adaptation to the ErP regulation
- The previously used fans of diameters 420, 450 and 500 were replaced by a uniform fan of **diameter 450**
- The new Bock condensing units, adapted to the highest eco-design requirements, receive a new *design code* **DK 076**
- Please note that the new (as of DK 076) and previous (up to DK 075) fans and heat exchangers are not interchangeable
- **ATTENTION:** The dimensions of the condensing units are getting larger. Dimensional drawings shown in the software for SHG(SHA)34-66-L and SHGZ7 not yet updated!



Transcritical CO₂ compressors with permanent magnet motor for direct start (LSPM)

HGX24+34+46 ML**P**/SP/SHP CO₂ T

- The compressor portfolio for the refrigerant R744 (CO₂) has been extended by a new series with **LSPM motor** technology (Line Start Permanent Magnet): *Transcritical* compressors of the sizes [HGX24+34+46 P CO₂ T](#)
- In the software you will find this product series together with the transcritical compressors with asynchronous motors: HGX12-46 CO₂ T
- Further information on this product series can be found on our homepage www.bock.de ¹

¹ Link available from week 23

CO₂-Compressors (transcritical)

HG CO₂ T transcritical

Types	Displacement at 50 Hz (1450 rpm) m ³ /h						
HGX12	1.7	2.8	3.5				
HGX24	4.8	6.2	7.9	9.7			
HGX34	10.2	11.7	13.3	15.0	16.9	18.8	20.8
HGX46	25.3	28.2	31.2	39.5			

HG P CO₂ T transcritical (LSPM)

Types	Displacement at 50 Hz (1500 rpm) m ³ /h						
HGX24	4.8	6.2	7.9	9.7			
HGX34	10.2	11.7	13.3	15.0	16.9	18.8	20.8
HGX46	25.3	28.2	31.2	39.5			

Digital capacity regulator for transcritical CO₂-compressors: DCR22 CO₂ flexxCO₂NTROL

HGX24+34+46 (+P) CO₂ T

- New accessory for the transcritical 4- and 6-cylinder CO₂ series HGX24+34+46 (+P) CO₂ T: Digital capacity regulator BOCK **DCR22 CO₂ flexxCO₂NTROL**
- Almost infinitely variable regulation between 100% and 25% (depending on operating conditions)¹
- Compressors can be equipped with a maximum of two (4-cylinder) and three (6-cylinder) capacity controllers, respectively
- Further information on this product series can be found on our homepage www.bock.de



¹ Restrictions on the application limits must be observed

HA-Compressors | Display discharge end temperature

HA22e – HA44e & SHA22e-44e-L

- For the air-cooled semi-hermetic **HA compressors** and **SHA condensing units**, the (calculated) discharge end temperature is now displayed in the VAP.
- The discharge end temperature is a purely calculated value; among other things, the heat dissipation of the compressor is not taken into account. In reality, the deviations from the actually measured discharge end temperature can vary depending on, among other things, the ambient temperature, superheat, etc.
- The displayed discharge end temperature is limited to a minimum value of 60°C, which is indicated by a preceding "<" sign.

HAX44e/565-4

Application: Refrigeration & AC

Power supply: 50 Hz, 400 V

Motor: 380-420V Y/YY -3- 50Hz PW, Fan: 230V -1- 50/60Hz

EN12900 ANSI 540

Refrigerant: R448A

Reference temperature: Dew point

Evaporating temperature: -35.0 °C

Evaporating pressure (abs.): 1.27 bar

Condensing temperature: 40.0 °C

Condensing pressure (abs.): 16.58 bar

Frequency inverter:

Supply frequency: 50 Hz

Suction gas temperature: 20 °C

Subcooling (outside cond.): 0 K

Usable superheat: 100% or individual 5 K

Compressor refrigeration capacity: 7.07 kW

Evaporator refrigeration capacity: 7.07 kW

Power consumption: 4.78 kW

Current draw (400 V): 13.40 A

Coefficient of performance (COP/EER): 1.48

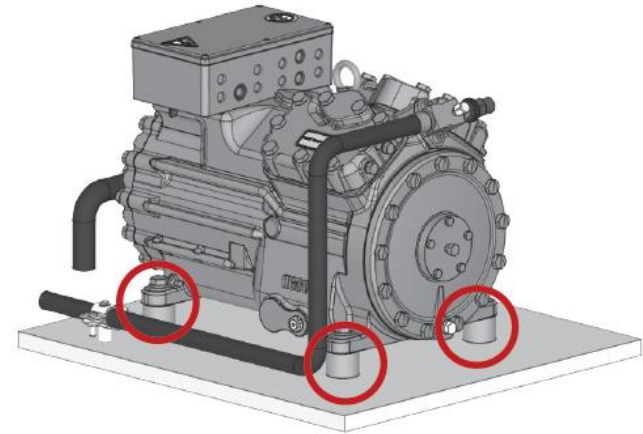
Condensing capacity: 11.20 kW

Mass flow: 0.041 kg/s

Discharge end temperature: 117.1 °C

Anti-vibration pads (mounting parts) now optional free accessory

- **Conversion** of the anti-vibration pads (mounting parts) previously included in the scope of delivery **to free accessory**
- In future the anti-vibration pads will only be supplied with the compressor if explicitly requested
- The background for this is that for many of our customers, especially in the rack building sector, the anti-vibration pads are not used and are disposed of. This is an unnecessary burden on the environment, which we want to avoid in the long term.





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