

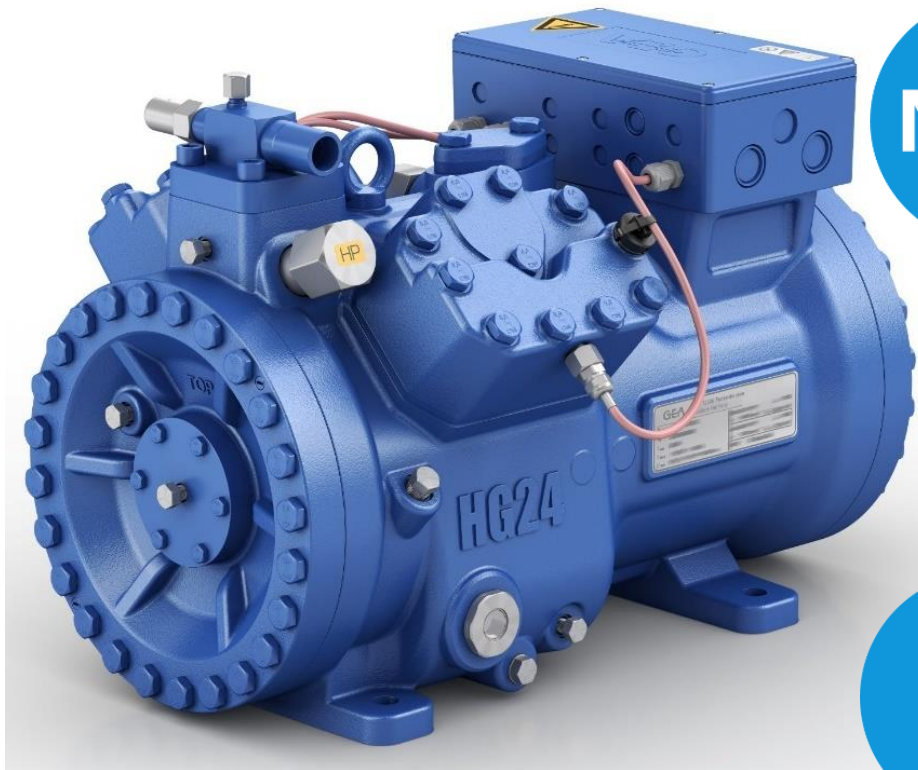
Bock Selection Tool VAP

New in version VAP 11.8.0

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NEW: HGX24e CO₂ LT - Subcritical CO₂ Compressor

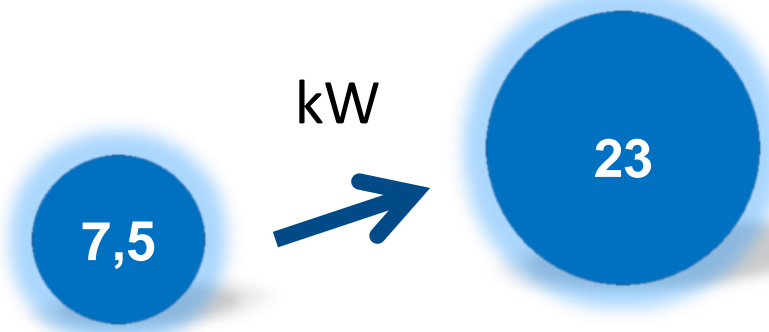


NEW



Subcritical **CO₂ LT** range, version ML, S for LT (Low Temperature) applications:
Pressure Design: LP/HP: **100/100 bar**

Type HGX24e CO ₂ LT	m ³ /h (50Hz)
HGX24e/55-4 ML/S CO ₂ LT	4.6
HGX24e/70-4 ML/S CO ₂ LT	6.0
HGX24e/90-4 ML/S CO ₂ LT	7.6
HGX24e/110-4 ML/S CO ₂ LT	9.4
HGX24e/130-4 ML/S CO ₂ LT	11.4
HGX24e/145-4 ML/S CO ₂ LT	12.7

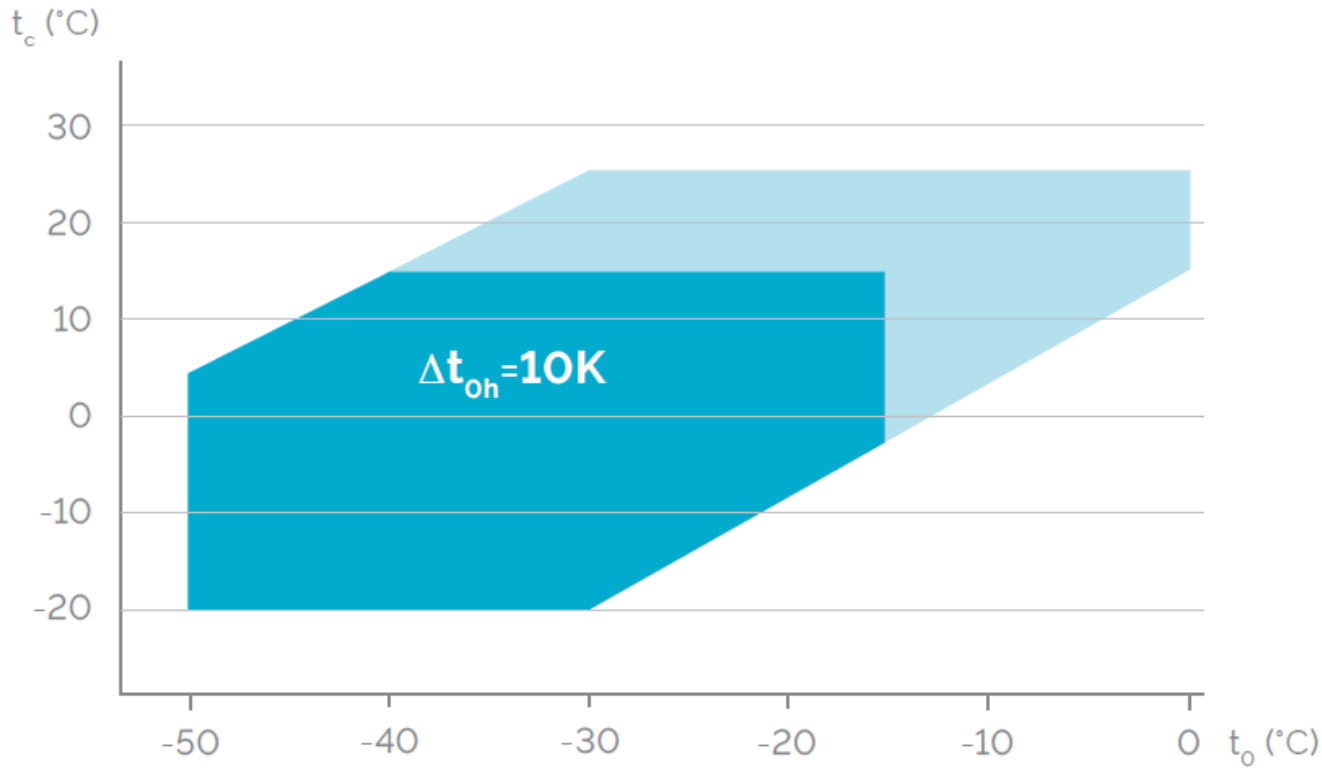


LT Cooling Capacity

$$t_o/t_c/t_{oh} = -35^{\circ}\text{C}/-5^{\circ}\text{C}/10\text{K}/50\text{Hz}$$

HGX24e CO₂ LT - Subcritical Operating Limits (high stand still pressure)

HG CO₂ LT



Max. permissible operating pressure (LP/HP): 100/100 bar

● compressor version ML ● compressor version S

ML: small motor

Bock Oil C85E

S: strong motor

Bock Oil C85E

Applications: Low Temperature (LT)

HGX24e CO₂ LT - Technical Data

- ⊕ Four-cylinder semi-hermetic compressor design **HGX24e CO₂ LT**
- ⊕ Max. permissible pressure: (LP/HP) **150/100 bar**
- ⊕ Weight: **111 ÷ ca. 116 kg** (including shut off valves)
- ⊕ Dimension: **approx. height 355 mm**, length **555 mm** (including shut off valves)
- ⊕ Max. permissible inclination: **15°** continuous operation, 30° short-term (max. 2 min.)
- ⊕ Frequency range: **30-70 Hz**
- ⊕ Displacement at 50 Hz: **4.6 ÷ 12,7 m³/h** (6 capacity steps)
- ⊕ Low temperature capacity: **4.5 ÷ 31 kW** ¹⁾

¹⁾ -35°C / -5°C / 10 K / 30-70 Hz

HGX24(e) CO₂ T + LT - Highlights

Excellent running comfort

- Low noise level, vibrations and pulsations

Specific CO₂ pressure design

- CO₂ T (transcritical): LP/HP 100/150 bar
- CO₂ LT (subcritical): LP/HP 100/100 bar

Highest compressor efficiency

- Reduced operating energy costs

Proven reliable Bock CO₂ compressor design

- For low operating and service costs
 - Consideration of challenging lubrication
 - Demands with CO₂ (high solubility)
- Low oil carry over
 - Increased compressor and system efficiency
- All compressors equipped with oil pump

Compact and light design

- Market standards for dimension & connection
- Applicable limited space and mobile application

Solution for all CO₂ applications, operating ranges and markets

- Applications: MT, PC(IP), HP, AC, LT
- Flexible with specific compressor version (ML, S, SH & LT)
- Reliable and efficient part load with wide frequency range



NEW: Compressor HGX24e CO₂ LT

**Serial start
CO₂ LT:
17.05.2021
(CW20/21)**

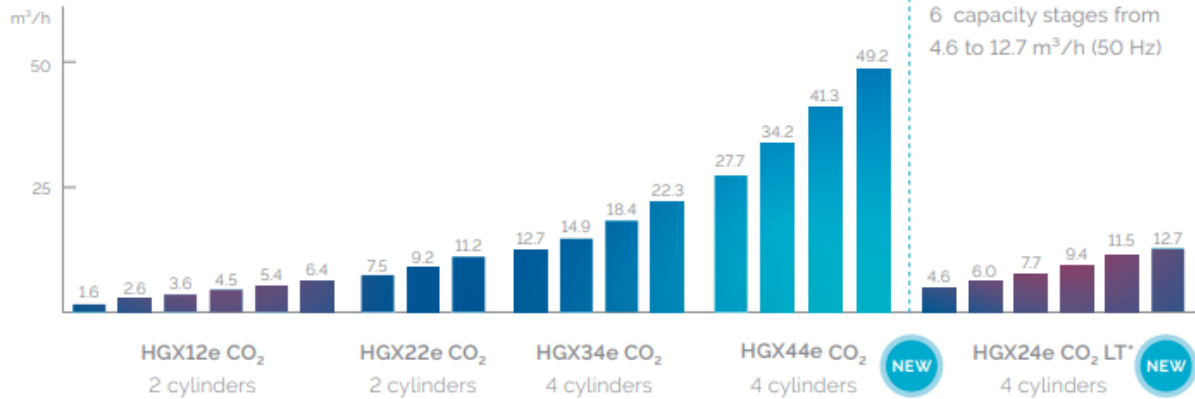


BOCK CO₂ Compressors - Product Program

LT Applications (subcritical)

Subcritical CO₂ compressors (LP 40 bzw. 30 bar)

4 model sizes with 17 capacity stages from 1.6 to 49.2 m³/h (50 Hz)



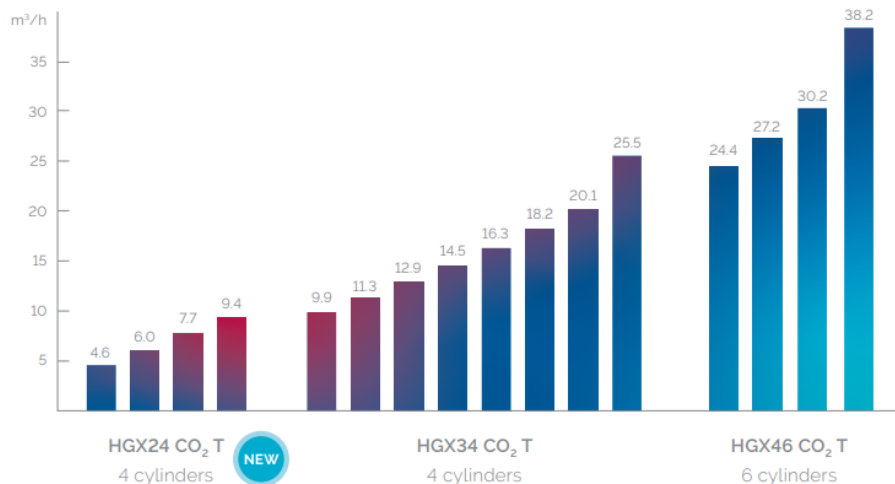
Subcritical CO₂ compressors (LT range - LP 100 bar)

1 model size with 6 capacity stages from 4.6 to 12.7 m³/h (50 Hz)

LT, MT, AC & HP Applications (transcritical)

Transcritical CO₂ compressors

3 model sizes with 16 capacity stages from 4.6 to 38.2 m³/h (50 Hz)



Cooling Capacity

2,7 – 90 kW



At 50 Hz [1450 rpm], evaporating temperature: -35 °C, condensing temperature: -5 °C, superheat: 10 K, subcooling: 0 K



Cooling Capacity

9 – 85 kW



At 50 Hz [1450 rpm], evaporating temperature: -10 °C, gas cooler outlet temperature: +35 °C/90 bar, superheat: 10 K





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Bock GmbH . Benzstr. 7 . 72636 Frickenhausen . Germany . Tel +49 7022 9454-0 . Fax +49 7022 9454-137 . info@bock.de . bock.de