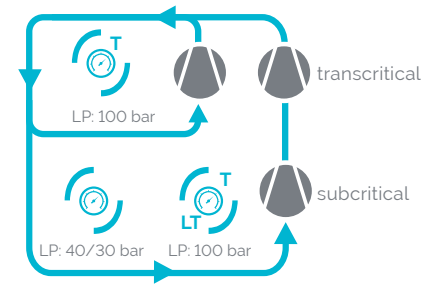# CO$_2$ Compressor Range
BOCK HGX24e CO$_2$ LT

The new CO2 compressor range for low
temperature with high standstill pressures
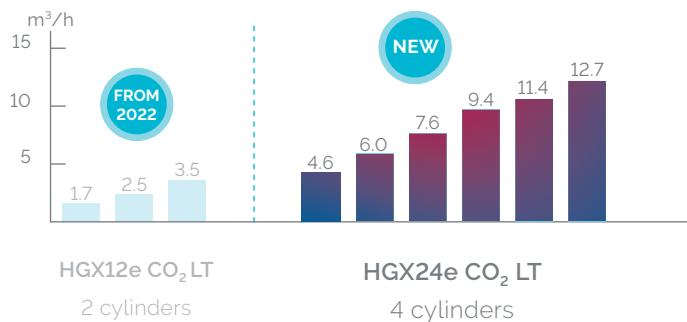
BOCK

colour the world
of tomorrow

BOCK LT compressors – the experts for high standstill pressures in low temperature applications

High pressures are generally not a special feature in CO_2 applications. However, for an optimal configuration, the requirements from operating and upcoming standstill pressure must always be considered. The proven subcritical CO_2 compressors from BOCK allow standstill pressures low pressure side of up to 40 or 30 bar. If higher standstill pressures are required, the new LT series can provide standstill pressure requirements LP up to 100 bar - available in the two motor versions ML and S for a wide frequency range and larger operating limits. This increases operational reliability and reduces the risks for malfunctions - thereby reducing system operating and service costs, especially in applications with frequent and extended downtime.
And even with the LT series you do not have to compromise on the usual high efficiency, reliability and quality of BOCK.
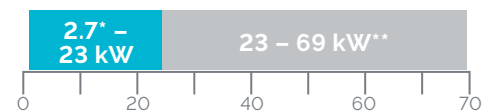
transcritical

LP: 100 bar

subcritical

LP: 40/30 bar   LP: 100 bar   LT

CO_2 compressors - LT range

2 model sizes with 9 capacity stages from 1.7 to 12.7 m³/h (50 Hz)

m³/h

FROM 2022

NEW

15

10

5

1.7   2.5   3.5   4.6   6.0   7.6   9.4   11.4   12.7

HGX12e CO_2 LT
2 cylinders

HGX24e CO_2 LT
4 cylinders

Cooling capacity

2.7* – 23 kW   23 – 69 kW**

0   20   40   60   70

Evaporating temperature at 50 Hz: –35 °C,
Condensing temperature: –5 °C,
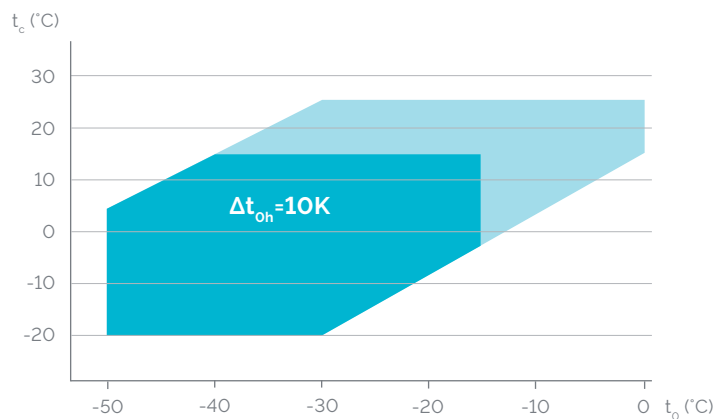suction gas superheat: 10 K, subcooling: 0 K

* from 2022

** For higher capacities in low temperature applications with standstill pressures up to LP 100 bar, the HGX34 CO_2 T and HGX46 CO_2 T are available in the ML version with 12 displacement stages.

LT

Operating limits HG CO_2 LT

t_c (°C)

30

20

10

0

-10

-20

$\Delta t_{0h}=10K$

-50   -40   -30   -20   -10   0 t_0 (°C)

Max. permissible operating pressure (LP/HP): 100/100 bar
● compressor version ML ○ compressor version S

LP = low pressure
HP = high pressure

Details and further explanations can be found in the brochure "BOCK CO_2 compressor program" and on the internet via the BOCKVAP selection program vap.bock.de.