

Danfoss BOCK® Compressors | Transcritical CO₂ compressor

Simplicity for large-capacity in industrial systems

The HGX56 CO₂ T 6 cylinder compressor reduces cost, system complexity, and the number of compressors required for large industrial heat pumps, commercial refrigeration, and district heating systems. ASERCOM certified.







Danfoss BOCK® goes big – with CO₂ compressors

Transcritical 6-cylinder compressor for large capacities in industrial, commercial and sports facilities

The new Danfoss BOCK® HGX56 CO₂ T transcritical CO₂ compressor is specially designed for performance increases with the natural refrigerant R744. The new 6-cylinder design ensures greater capacities while reducing the number of compressors. Different design variants offer optimized solutions especially for industrial refrigeration, cold storage, ice sports facilities and heat pumps – an attractive and sustainable alternative to synthetic refrigerants and NH₃ applications.

Danfoss BOCK® HGX56 CO₂ T – Advantages and benefits

- Designed for demanding conditions with the natural refrigerant R744 in commercial and industrial applications
- Higher capacities with reduced number of compressors: reduced system complexity and investment costs
- Specialized also for the requirements of heat pumps with extended operating conditions
- High efficiency and highest reliability due to holistic Danfoss BOCK® CO₂ compressor design.



Lowest energy and operating costs

Highest efficiency and reliability thanks to more than 30 years of Danfoss BOCK® expertise in CO₂ compressor technology



Wide range of applications

high-temperature heat pumps – with reliable and flexible partial and full load



Outstanding running comfort

Low noise and vibration, compact and lightweight design and minimal oil carry over rate



Certified compressors:

HGX56/480-4 S CO₂T HGX56/680-4 ML CO₂T HGX56/680-4 S CO₂T HGX56/680-4 SH CO₂T



Transcritical Danfoss BOCK® CO₂ compressor range – from small to large capacity for all applications









Medium Temperature Application

Cooling capacity. HGX CO₂T range with HGX56 CO₂T



 $^{^{1}\}text{-}10^{\circ}\text{C}/\ +35^{\circ}\text{C}/90$ bar / 10 K / 50 Hz EER (Energy Efficiency Ratio) Cooling

Heat Pump Application

Heating capacity. HGX CO₂T range with HGX56 CO₂T



 $^{^2}$ +5°C / +25°C / 100 bar / 10 K / 50 Hz COP (Coefficient of Performance) Heating

Efficiency

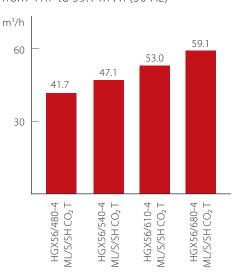




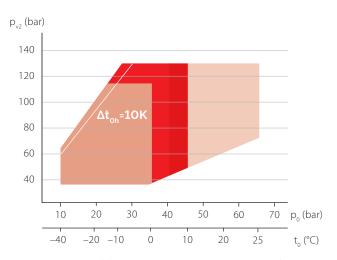
HGX56/680-4S CO₂T

HGX56 CO₂ T (transcritical)

One model size with four capacity stages from 41.7 to 59.1 m³/h (50 Hz)



Operating limits

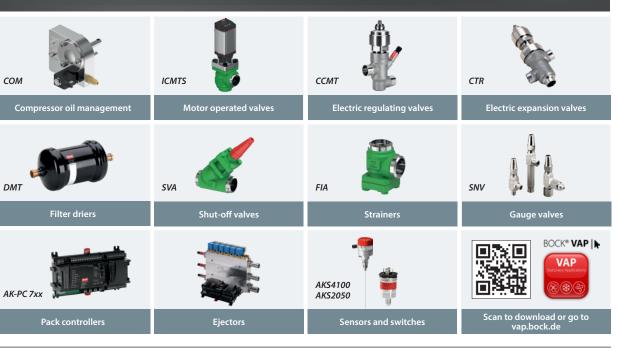


Max. permissible operating pressure (LP/HP) 100/150 bar

- compressor version ML compressor version S compressor version SH
- compressor ranges HGX12 CO_2 T and HGX24 CO_2 T







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