

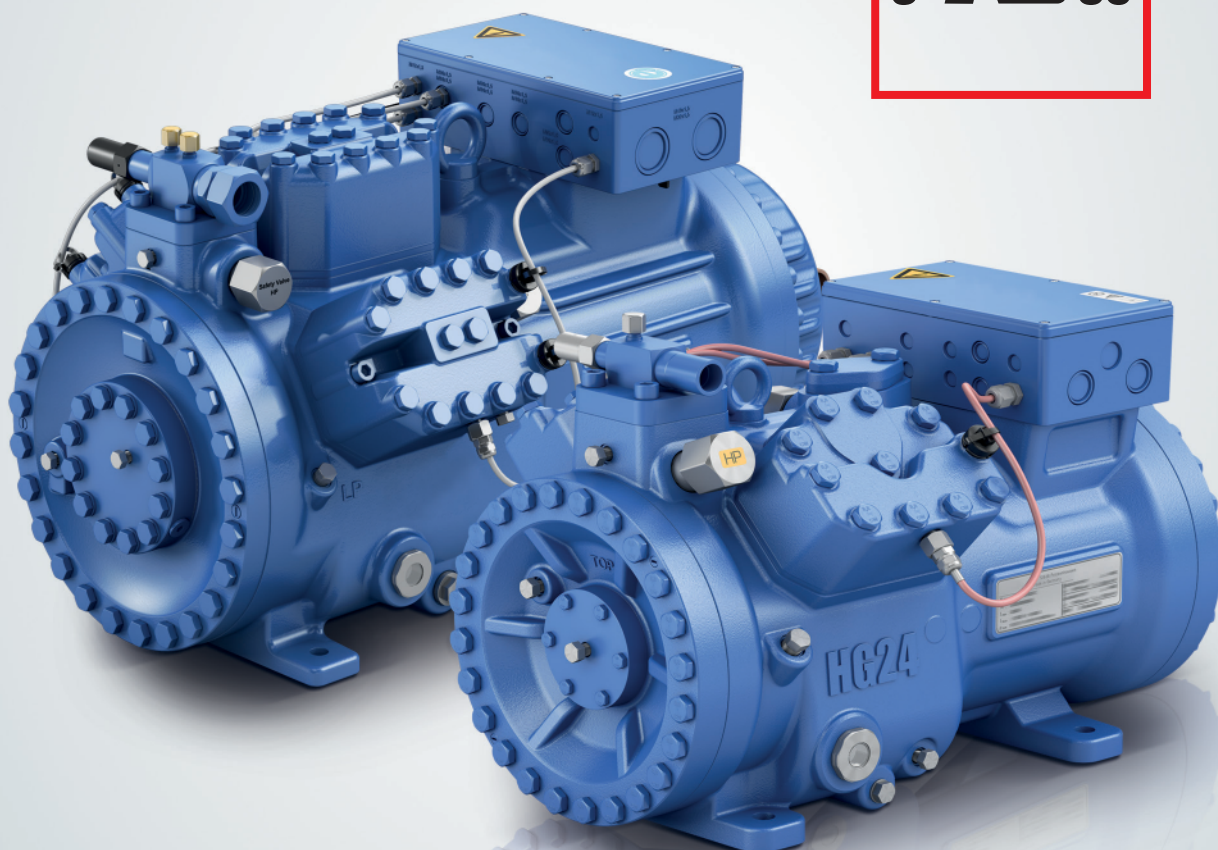
ENGINEERING
TOMORROW



Danfoss BOCK® Compressors | Compressor Program

Danfoss BOCK® UL CO₂ compressor program

Transcritical and subcritical CO₂ compressor ranges.



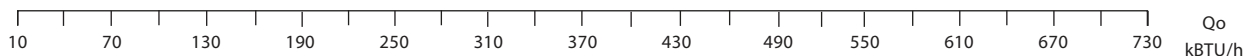
bock.danfoss.com

BOCK®

Transcritical CO₂ compressors

Cooling capacity

12.1 - 535.0 kBTU/h (4 - 156 kW)

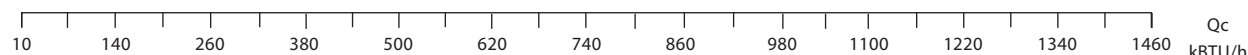


Evaporating temperature at 60 Hz: +14 °F (-10 °C),

Gas cooler outlet temperature: +95° F (+35° C)/1305 psi (90 bar), suction gas superheat: 18 R (10 K)

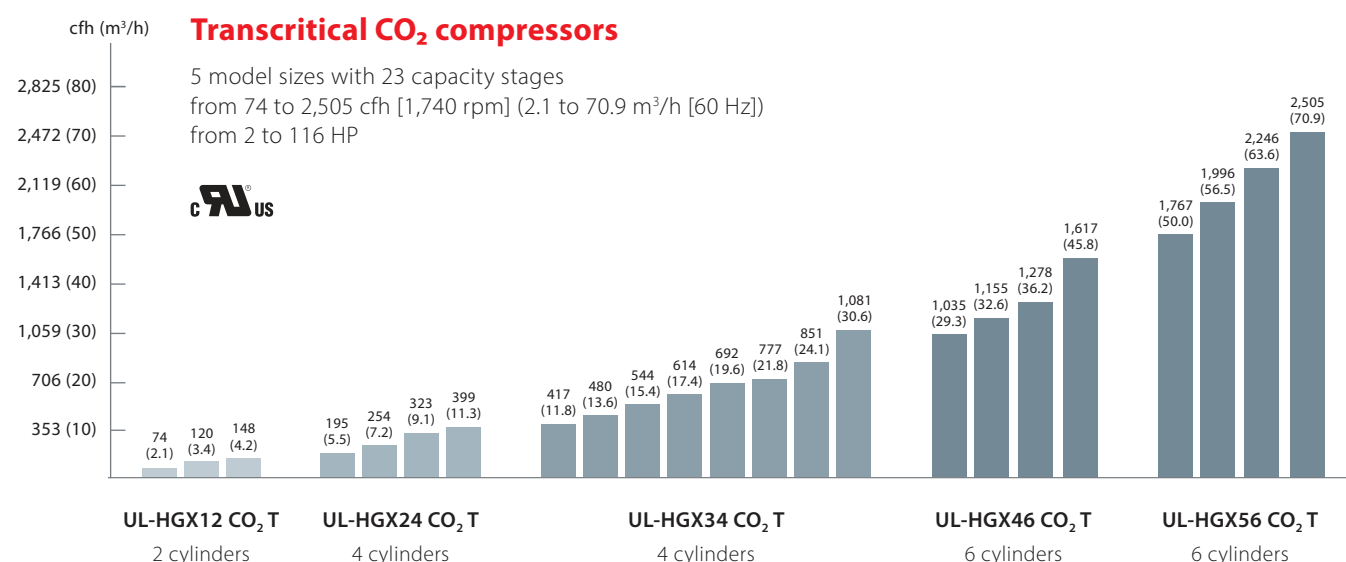
Heating capacity

36.9 - 1433.0 kBTU/h (11 - 420 kW)



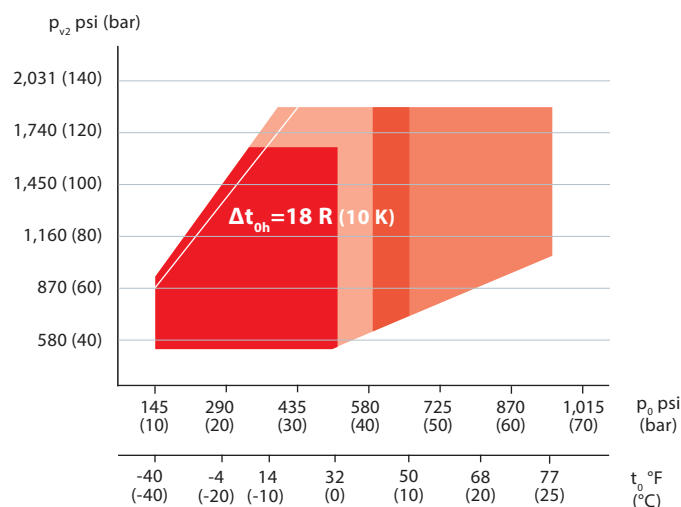
Evaporating temperature at 60 Hz: +41° F (+5° C)

Gas cooler outlet temperature: 77° F (+25° C)/1450 psi (100 bar), suction gas superheat 18° R (10 K)



UL-HGX24 CO₂ T, UL-HGX34 CO₂ T and UL-HGX46 CO₂ T available also with high efficient LSPM (line start permanent magnet) motors.

Operating limits UL-HG CO₂ T (transcritical)

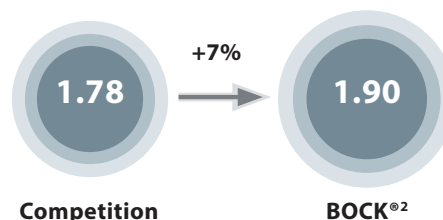


Max. permissible operating pressure (LP/HP) 1450 psi (100 bar) / 2176 psi (150 bar)

● compressor version ML ● compressor version S ● compressor version SH

— compressor ranges HGX12 CO₂ T, HGX24 CO₂ T and HGX56 CO₂ T

BOCK® efficiency in competitive comparison (MT Efficiency – EER¹)



Competition

BOCK®²

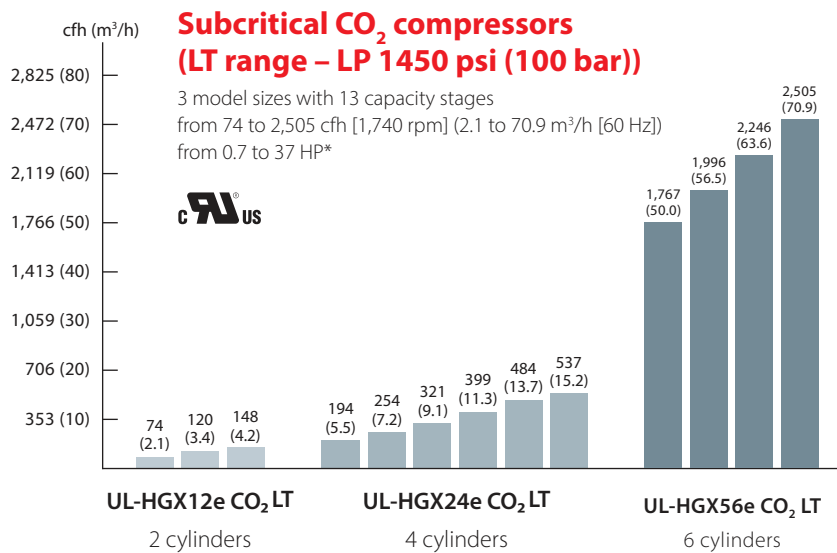
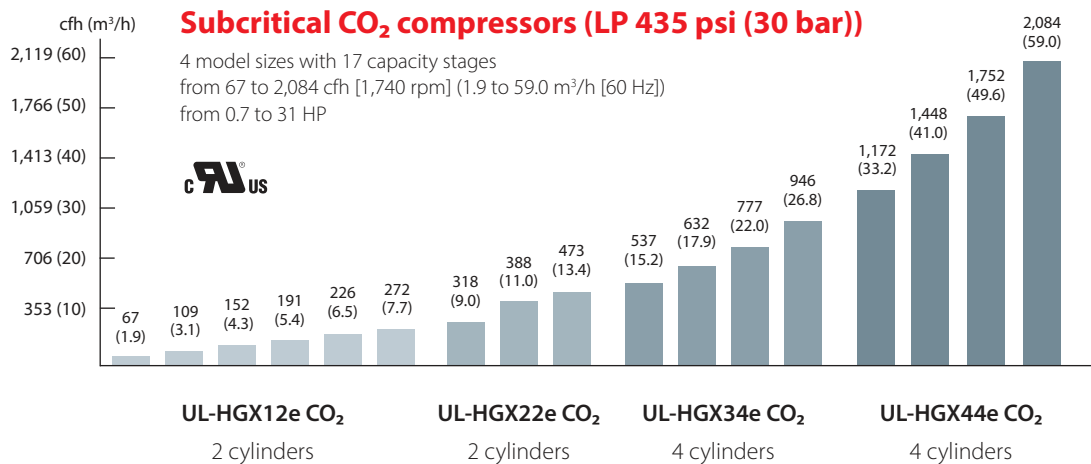
¹ EER = Energy Efficiency Ratio
= Refrigeration capacity/power consumption

² UL-HGX46/345 S 50 CO₂ T

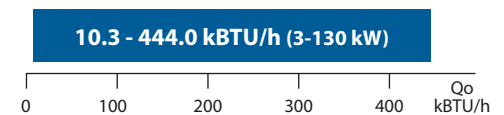
Evaporating temperature at 60 Hz: +14 °F (-10 °C),
Gas cooler outlet temperature: +95° F (+35° C)/1305 psi (90 bar), suction gas superheat: 18 R (10 K)

Details and further explanations can be found on the internet via the BOCK® VAP compressor selection tool
vap.bock.de

Subcritical CO₂ and LT compressors

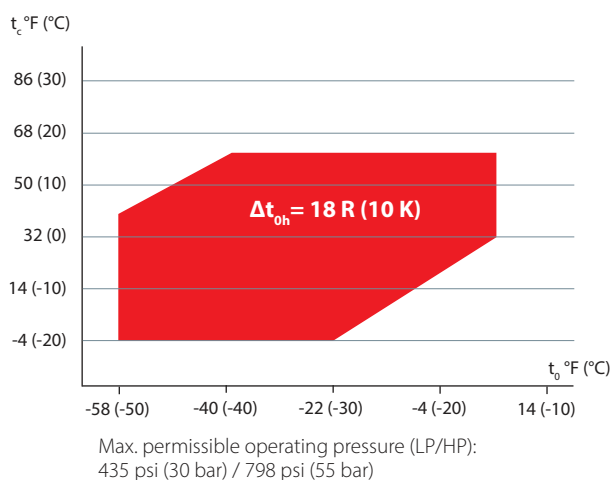


Cooling capacity

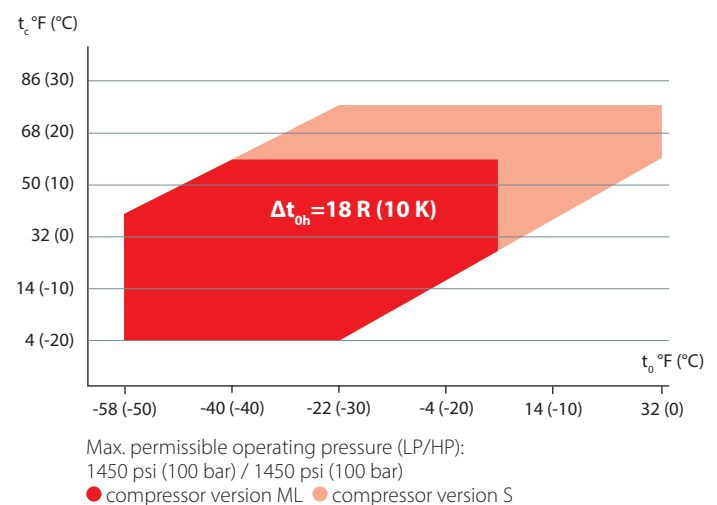


Evaporating temperature at 60 Hz: -31 °F (-35 °C),
Condensing temperature: 23 °F (-5 °C), suction gas
superheat: 18 R (10 K), subcooling: 0 R (0 K)

Operating limits UL-HG CO₂ (subcritical)



Operating limits UL-HG CO₂ LT (subcritical – LP 1450 psi (100 bar))



* For higher capacities in low temperature applications with standstill pressures up to LP 1450 psi (100 bar), the UL-HGX34 CO₂ T and UL-HGX46 CO₂ T are available in the ML version with 12 displacement stages.

UL-HG CO₂ compressor are equipped with 460 V / 60 Hz motors. Further motor voltages on request.



Danfoss BOCK®

Service and support

Up-to-date information, training and tools about BOCK® CO₂ compressors, compressors for hydrocarbons and solutions for other refrigerants. Use our expertise for your daily practice – online and free of charge.



SELECT

Go to vap.bock.de, download VAP – compressor selection tool, and select the appropriate compressors or condensing units.



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