

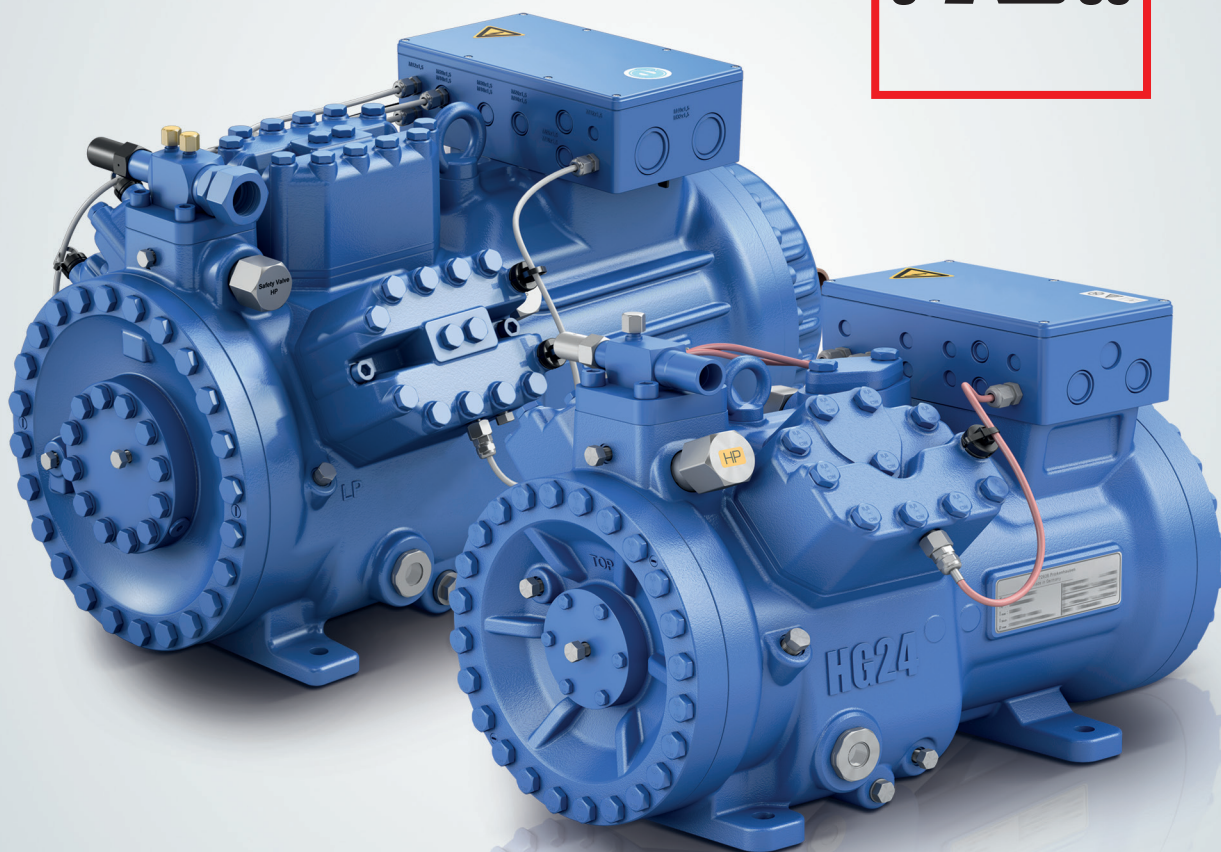
ENGINEERING  
TOMORROW

*Danfoss*

Danfoss BOCK® Compressors | Compressor Program

# Danfoss BOCK® UL CO<sub>2</sub> compressor program

Transcritical and subcritical CO<sub>2</sub> compressor ranges.



[bock.danfoss.com](http://bock.danfoss.com)

**BOCK®**

# Transcritical CO<sub>2</sub> compressors

## Cooling capacity

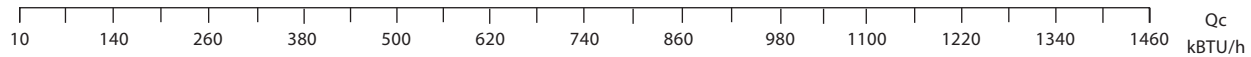
12.1 - 535.0 kBTU/h (4 - 156 kW)



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

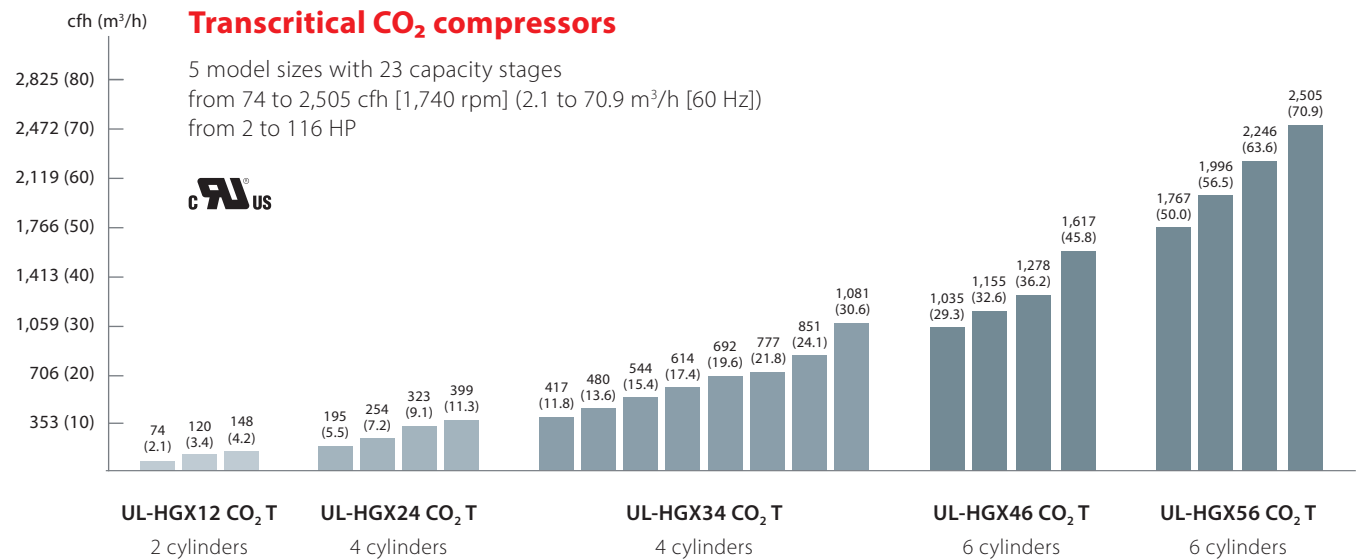
36.9 - 1433.0 kBTU/h (11 - 420 kW)



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)

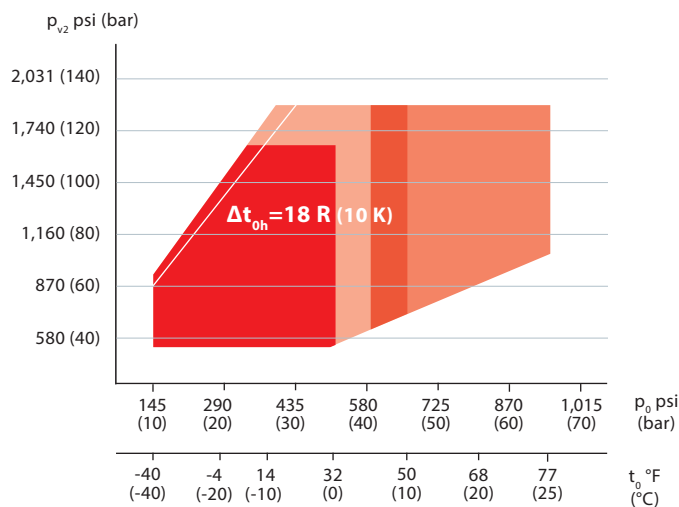
## Transcritical CO<sub>2</sub> compressors

5 model sizes with 23 capacity stages  
from 74 to 2,505 cfh [1,740 rpm] (2.1 to 70.9 m<sup>3</sup>/h [60 Hz])  
from 2 to 116 HP



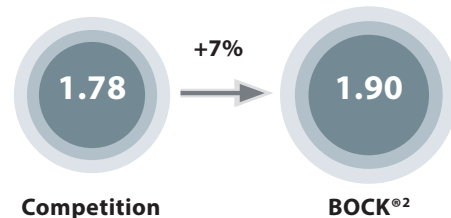
UL-HGX24 CO<sub>2</sub> T, UL-HGX34 CO<sub>2</sub> T and UL-HGX46 CO<sub>2</sub> T available also with high efficient LSPM (line start permanent magnet) motors.

## Operating limits UL-HG CO<sub>2</sub> 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 CO<sub>2</sub> T, HGX24 CO<sub>2</sub> T and HGX56 CO<sub>2</sub> T

## BOCK® efficiency in competitive comparison (MT Efficiency – EER<sup>1</sup>)

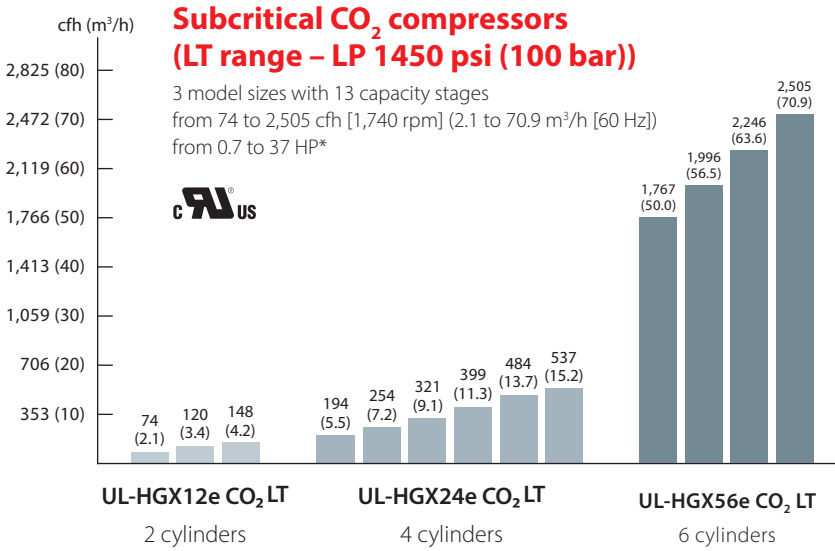
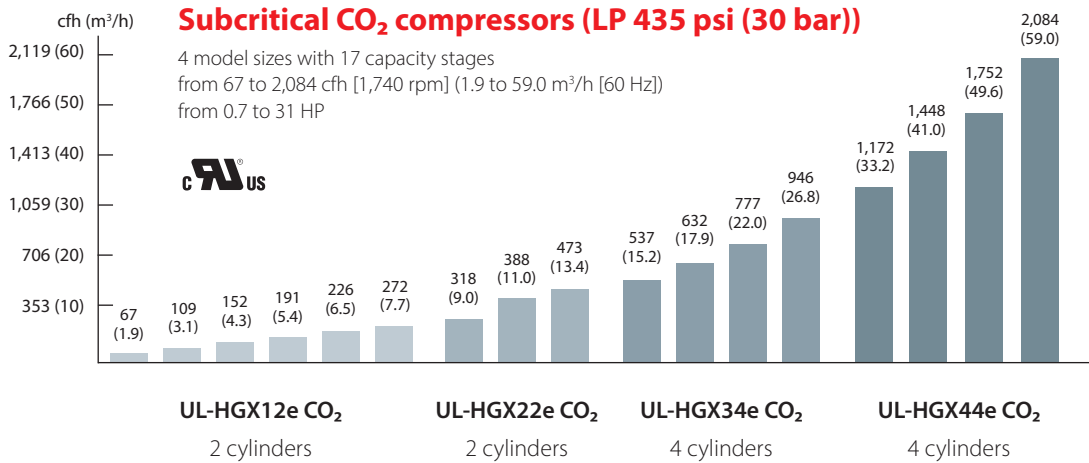


<sup>1</sup> EER = Energy Efficiency Ratio = Refrigeration capacity/power consumption  
<sup>2</sup> UL-HGX46/345 S 50 CO<sub>2</sub> T  
 Evaporating temperature at 60 Hz: +14 °F (-10 °C),  
 Gas cooler outlet temperature: +95° F (+35° C)/1305 psi (90 bar), suction gas superheat: 18 R (10 K)

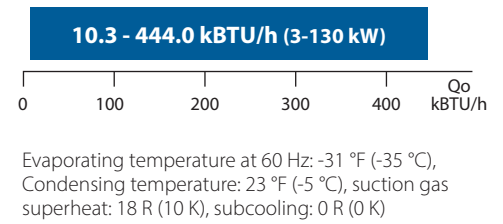
Details and further explanations can be found on the internet via the BOCK® VAP compressor selection tool [vap.bock.de](http://vap.bock.de)



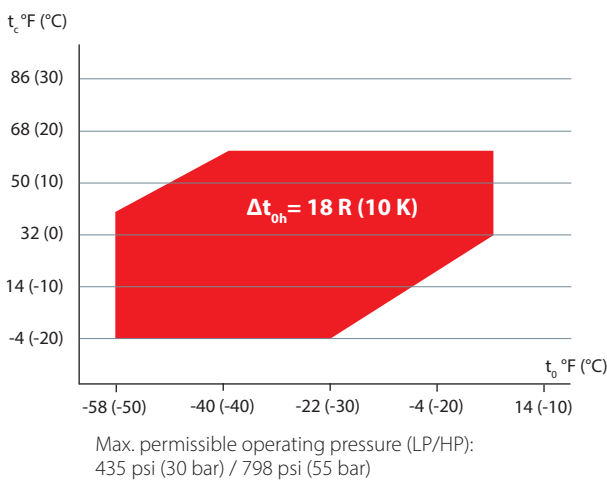
# Subcritical CO<sub>2</sub> and LT compressors



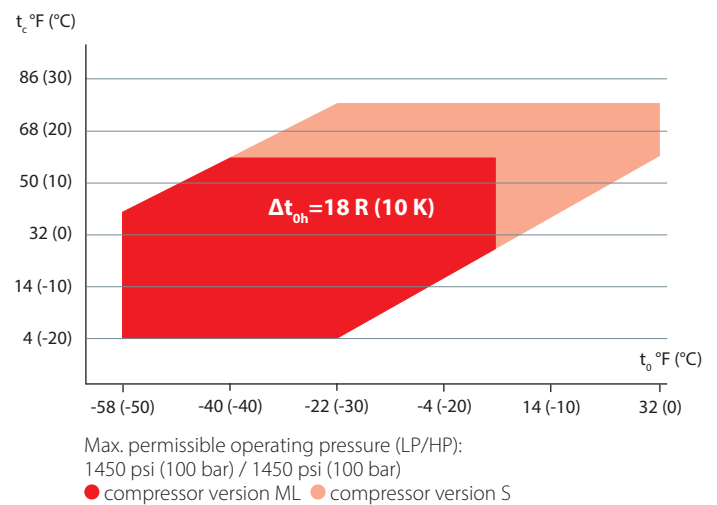
### Cooling capacity



### Operating limits UL-HG CO<sub>2</sub> (subcritical)



### Operating limits UL-HG CO<sub>2</sub> 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 CO<sub>2</sub> T and UL-HGX46 CO<sub>2</sub> T are available in the ML version with 12 displacement stages.

UL-HG CO<sub>2</sub> compressor are equipped with 460 V / 60 Hz motors. Further motor voltages on request.



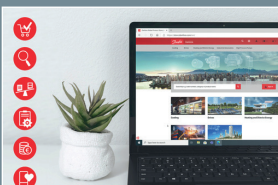
# Danfoss BOCK® Service and support

Up-to-date information, training and tools about BOCK® CO<sub>2</sub> compressors, compressors for hydrocarbons and solutions for other refrigerants. Use our expertise for your daily practice – online and free of charge.



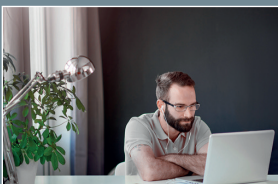
## SELECT

Go to [vap.bock.de](http://vap.bock.de), download VAP – compressor selection tool, and select the appropriate compressors or condensing units.



## ORDER

Order BOCK® products at [store.danfoss.com](http://store.danfoss.com) or buy the spare parts from BOCKshop via [bockshop.bock.de](http://bockshop.bock.de).



## LEARN

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**Danfoss RefCare Services**  
BOCK® compressors  
service support

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