



RECIPROCATING COMPRESSOR

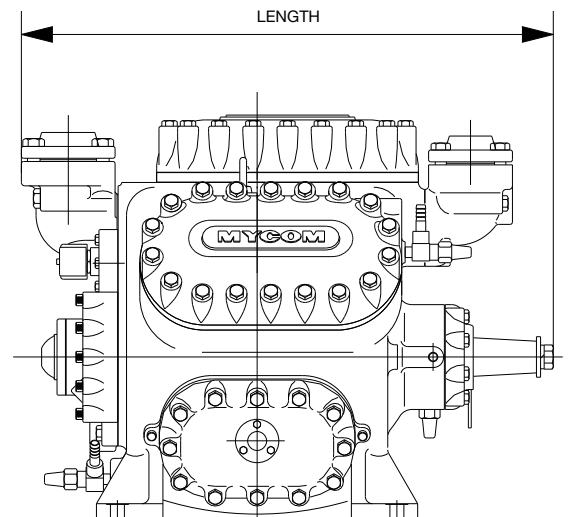
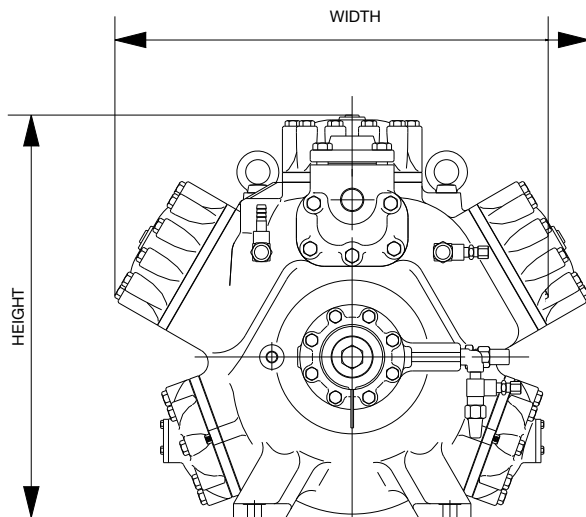
# HK-Series



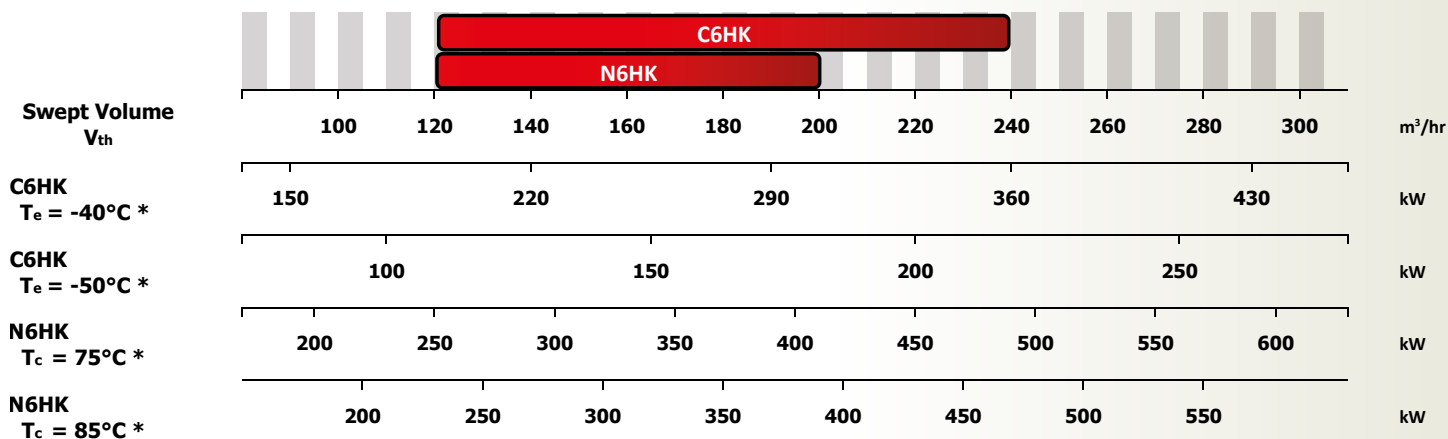
### The HK-series

stands for high pressure. The machine can be used to compress the gas up to 50 bar. Today every customer wants to reduce his energy consumption. HK-series compressors are used in CO2 refrigeration systems and in NH3 heat pumps. When using the HK-series compressor in CO2 refrigeration, it is not necessary to foresee a separate defrosting compressor, as the basic refrigeration compressor can also be used in defrosting mode.

HK-series compressor heat pumps are directly contributing to important energy savings. The heat pump can produce hot water over 80 °C with significant reduction of fossil fuels such as gas and oil. HK-series compressors can be used in a wide range of pressures and speeds. HK-series compressors will directly contribute in achieving your plant energy reduction plan.



TYPE	WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)
6HK	360	710	750	640



\* Refrigerant: N6HK=NH<sub>3</sub> , C6HK=CO<sub>2</sub>  
 C6HK : T<sub>c</sub> = -10°C / N6HK : T<sub>e</sub> = 30°C  
 N6HK : Indicator is heating capacity

ITEM	LIMIT VALUE	REMARKS
Maximum discharge pressure [barG]	50	
Maximum suction pressure [barG]	20 <sup>1)</sup>	
Minimum suction pressure [barG]	-0.733	
Maximum differential pressure [barG]	35	Pd-Ps
Design pressure [barG]	56	
Maximum compression ratio [-]	NH <sub>3</sub> : ≤ 9	Limited on discharge temperature
Maximum discharge temperature [°C]	NH <sub>3</sub> et CO <sub>2</sub> : 140	
Minimum suction temperature [°C]	-60	
Maximum oil supply temperature [°C]	60	Oil cooler outlet
Suction superheat [K]	> 0, ≤ 20	
Minimum/maximum cooling water inlet temperature [°C]	15 / 30 <sup>2)</sup>	Water temperature for head covers ≤ 50
Minimum/maximum rotation speed (rpm)	NH <sub>3</sub> : 900 / 1500 CO <sub>2</sub> : 900 / 1800	

1) Standstill is included.  
 2) Other temperatures are possible on request.

# MAYEKAWA MYCOM

## WORLDWIDE

- 40 countries / 127 offices
- 8 production plants



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