



6.0 MPa HIGH PRESSURE RECIPROCATING COMPRESSOR

HS-Series



The HS-series

introduces a new high pressure series of compressors focusing on environmental friendliness by using natural refrigerants and saving of energy and CO₂ emission.

The machine can be used to compress the gas up to 60 barG .

The HS series compressors can be used in CO₂ refrigeration systems and NH₃ heat pumps.

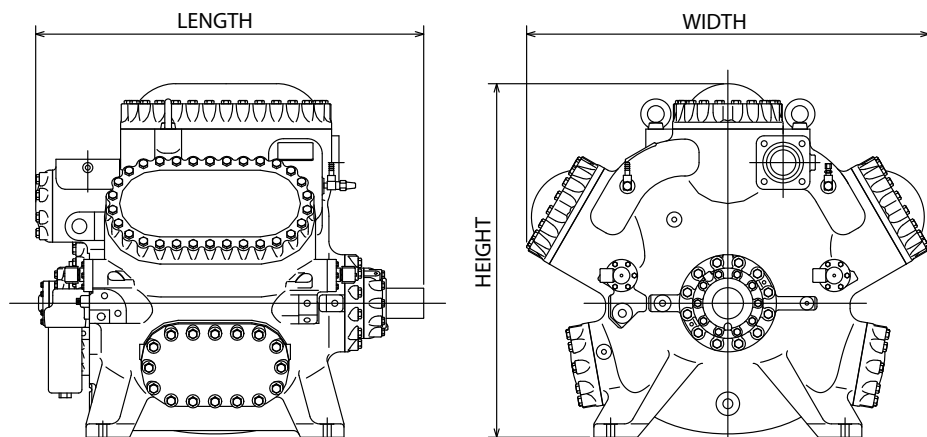
When using the HS series compressor in CO₂ refrigeration, this compressor can also be used for defrosting of the system up to 20°C, in addition to the refrigeration duty.

The HS series compressor heat pumps are directly contributing to significant energy savings.

The heat pump can produce hot water up to 95°C with important reduction of fossil fuel consumption such as gas and oil.

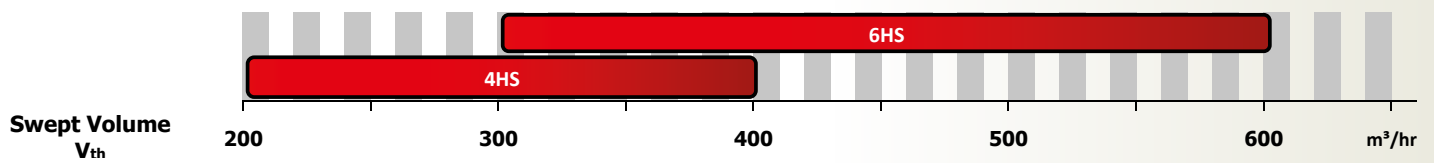
The HS series can be used in a wide range of pressures and speeds.

MAYEKAWA HS series compressors directly contribute in achieving your plant energy reduction plan.



UNIT TYPE	WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)
4HS	-	-	-	-
6HS ¹⁾	1800	1200	1160	1055

1) Available



ITEM	LIMIT VALUE	REMARKS
Maximum discharge pressure [barG]	60	
Maximum suction pressure [barG]	30 ¹⁾	
Minimum suction pressure [barG]	CO ₂ ; 4.2 NH ₃ ; ²⁾	
Maximum differential pressure [barG]	40	Pd-Ps
Design pressure [barG]	66 / 35	Low/High
Maximum compression ratio [-]	NH ₃ ; ≤ 5.0	Limited on discharge temperature
Maximum discharge temperature [°C]	140	
Minimum suction temperature [°C]	-60	
Maximum oil supply temperature [°C]	70	Oil cooler outlet
Suction superheat [K]	> 0, ≤ 15	
Minimum/maximum cooling water inlet temperature [°C]	15 / 50	Water temperature for head covers ≤ 50
Minimum/maximum rotation speed (rpm)	750 / 1500	direct drive only

- 1) During start-up condition, maximum should be kept less than 3.0MPa
 2) Now checking.

WORLDWIDE

- 35 countries / 122 offices
- 8 production plants



Europe Organization

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