



RECIPROCATING COMPRESSOR

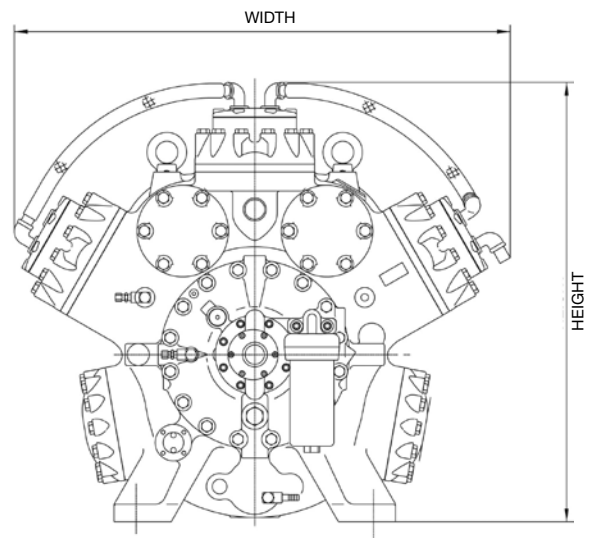
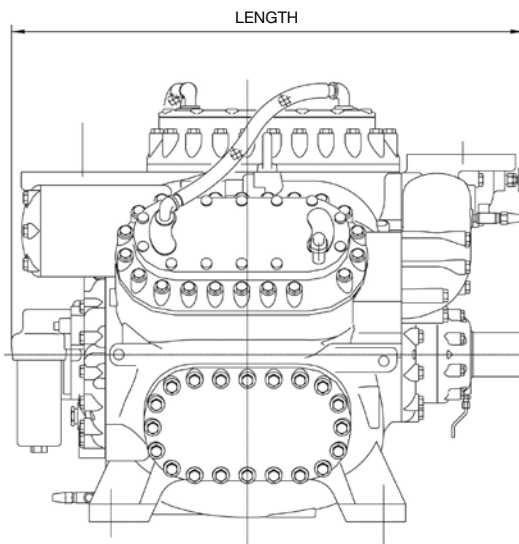
M-Series



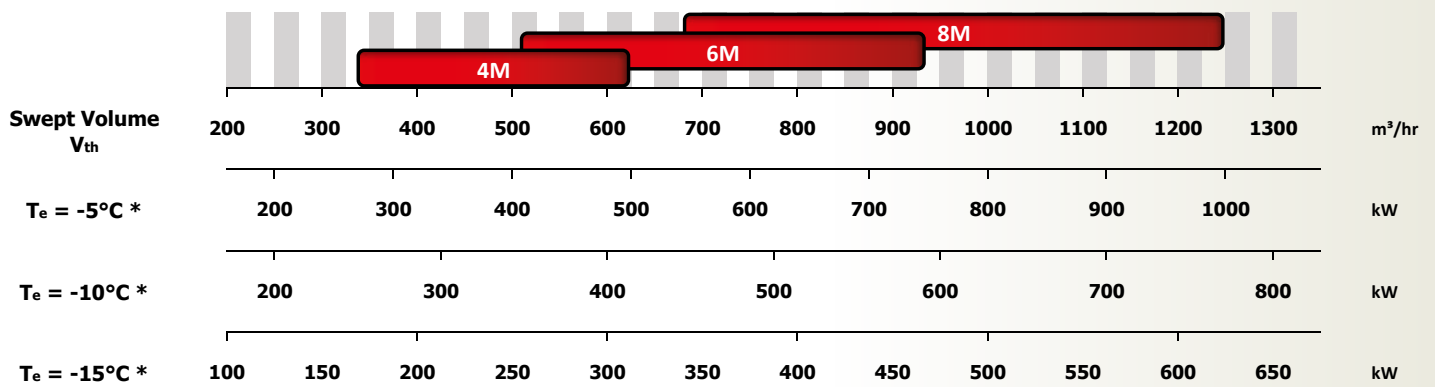
The M-series



is a new MAYEKAWA compressor for the next generation with maximum flow of 1278 m³/h displacement. As a result of reflecting all the technologies that MAYEKAWA accumulated for the past 85 years, we achieved world-class excellent COP and compressor maintenance has become more simplified with less work. Also M-series can work at a speed of maximum 1500 rpm with our latest technology. Furthermore this compressor is not only applicable for refrigerating, but also for heat pump because it can work with an operating pressure of 26 barG. It is notable that this compressor is most efficient at the temperature around -10 °C. Therefore it is suitable to use for ice production, skating rink, and cold storage warehouse.



TYPE	WEIGHT (kg)	WIDTH	LENGTH	HEIGHT
4M	1300	1019	1211	1103
6M	1580	1147	1247	1120
8M	1830	1147	1247	1190



* Refrigerant NH_3
 $T_c = 35^\circ C$

ITEM	LIMIT VALUE	REMARKS
Maximum discharge pressure [barG]	26	Booster specification < 0.6
Maximum suction pressure [BarG]	8 ¹⁾	Booster specification ≤ 0.05
Minimum suction pressure [BarG]	-0.733	
Design pressure [BarG]	30	
Maximum compression ratio [-]	$NH_3: \leq 7$	Limited on discharge temperature
Minimum compression ratio [-]	≥ 1.5	
Maximum discharge temperature [$^\circ C$]	$NH_3: 160$	
Minimum suction temperature [$^\circ C$]	-30	
Maximum oil supply temperature [$^\circ C$]	60	Oil cooler outlet
Suction superheat [K]	$> 0, \leq 20$	
Minimum/maximum cooling water inlet temperature [$^\circ C$]	15 / 30 ²⁾	Water temperature for head covers ≤ 50
Minimum/maximum rotation speed (rpm)	Minimum 800	Pd-Ps < 1.2 BarG
	Maximum 1200	$15 \leq T_e < 21^\circ C$
	Maximum 1500	$T_e < 15^\circ C$

1) Standstill is included. Standstill of booster specification is the same as the one of standard specification.
2) Other temperatures are possible on request.

WORLDWIDE

- 35 countries / 122 offices
- 8 production plants



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