



SCREW COMPRESSOR

FM-Series



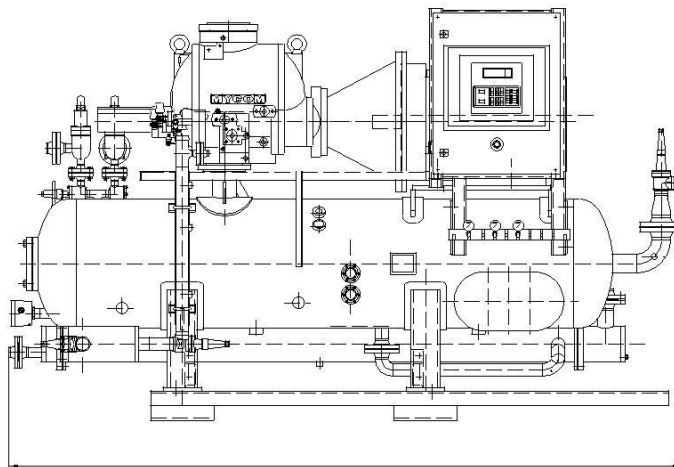
The FM - series

is a very economical compressor due to its simple design. It has a built-in check valve and suction strainer.

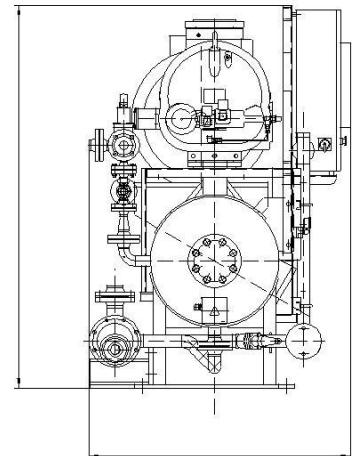
Customers can choose either a pump lubrication system or a pressure differential lubrication system. This compressor is also maintenance-friendly. Adjusting the coupling alignment is simple as the motor comes with a standard flanged motor (B35) design.

The operating conditions, including the process line, allow for a stable process.

The rotor design of this compressor, the same as the SCV series, allows for high volumetric efficiency resulting in high energy efficiency.



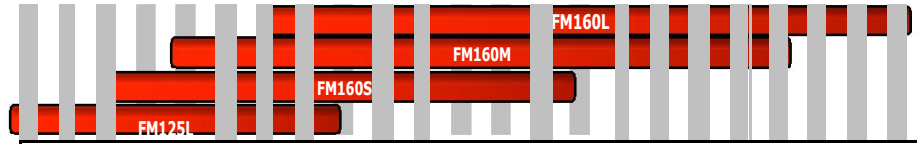
Length



Width

UNIT TYPE	PROVISIONAL WEIGHT (kg)	PROVISIONAL LENGTH (mm)	HEIGHT (mm)	WIDTH (mm)
FM125L	2800	3100	1750	1270
FM160S	3300	3200	1780	1300
FM160M	3250	3220	1780	1300
FM160L	3300	3220	1780	1300

"For reference use only! The dimensions indicated and the components depicted on our reference units do not necessarily correspond with the dimensions and /or components of your project"



Swept Volume V_{th}	150	200	250	300	350	400	450	500	550	600	650	700	m ³ /hr
$T_e = -5^\circ\text{C}^*$	140	190	240	290	340	390	440	490	540				kW
$T_e = -10^\circ\text{C}^*$	100	170	240	310	380	450	520						kW
$T_e = -15^\circ\text{C}^*$	70	120	170	220	270	320							kW

* Refrigerant NH₃
 $T_c = 35^\circ\text{C}$

Item	Limit Value		Remarks
Maximum Discharge Gas Pressure ¹⁾ [barG]	20		
Maximum Suction Gas Pressure [barG]	4,99		
Minimum Suction Gas Pressure [barG]	-0,8		
Maximum Compression Ratio [-]	L Port	6	
	M Port	10	
Maximum Suction Gas Temperature [°C]	85		Please consult Mycom to go outside the design limit.
Maximum Discharge Gas Temperature [°C]	90		Please consult Mycom to go outside the design limit.
Minimum Suction Gas Temperature [°C]	-60		
Maximum Suction Super Heat [K]	30		Discharge temperature limit has higher priority than suction super heat limit.
Maximum Oil Supply Temperature to bearing [°C]	60		In operation more than 13 mm ² /s viscosity is required
Standard Rotation Speed [rpm]	1500 - 3600		

1) Standstill is included.