



i SERIES SCREW COMPRESSOR

Screw Compressor / **Single Stage** Open Type

i SERIES



MYCOM

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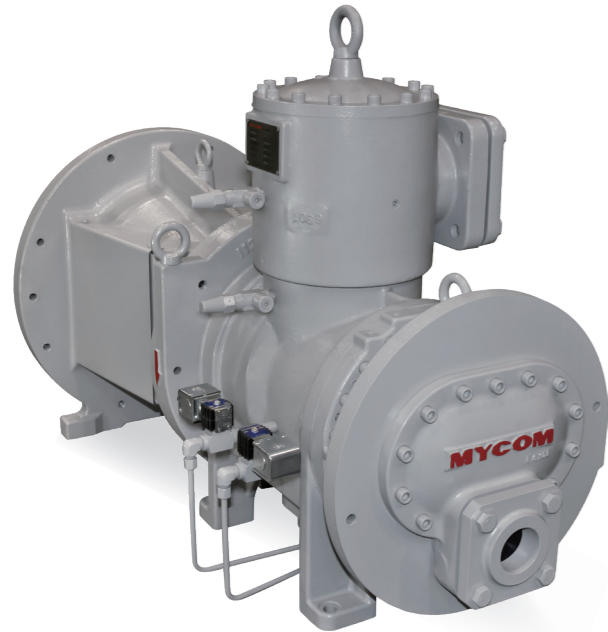
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Small compressor with high reliability:
Easily integrated in packaged systems

Screw Compressor [Single Stage] Open Type i SERIES



Facilitates Design of Packaged Systems

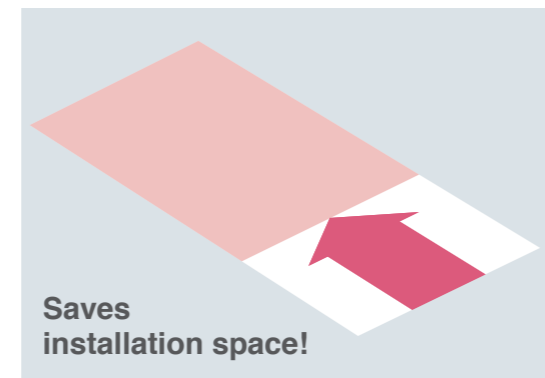
Featuring a built-in suction strainer and check valve, the i-series screw compressor supports flange motors and facilitates the design of packaged systems.

New Design Eliminates a Need of Oil Pump

The newly adopted ball bearings enable the i-series screw compressor delivers high performance without a need of oil pump.

Space-Saving Design

Using a flange motor, the small-footprint compressor can be installed in a confined space.



Easily Maintainable

Designed to facilitate the replacement of consumables.

Specifications

Item	Model	i125		i160			
		S	L	S	M	L	
Refrigerant		Ammonia / HFCs					
Theoretical displacement	2950rpm	m³/h	197	296	415	519	622
	3550rpm	m³/h	237	356	499	624	749
Minimum rotation speed	rpm	1450 ^{*1}					
Maximum rotation speed	rpm	4500	3550	4500	3550	3550	
Rotation direction		CW as viewed from motor					
Capacity control	%	100 / 75 / 50					
Gas inlet port		MYCOM 100A ^{*2}		ANSI #300 5"			
Gas outlet port		MYCOM 65CD ^{*2}		ANSI #300 3"			
Flange motor connection	NEMA	3**C/40°C		3**D/4**D			
	IEC	FF400	FF500	FF500/FF600			

* 1. The range of rotation speed varies by operating conditions. Please refer to the ranges of use stated in the operating instructions.

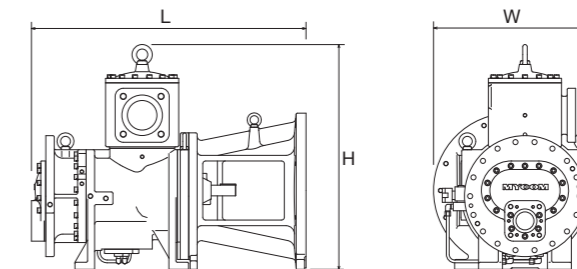
* 2. Flanges with a designation starting with MYCOM are in-house products of MYCOM.

Performance charts

Refrigerant	Temperature	Ammonia		R404A		R134a
		-40 / +35°C	-10 / +35°C	-40 / +35°C	0 / +40°C	+2 / +42°C
		Liquid Subcooling : 5°C Suction Superheat : 0°C Rotation speed : 2950rpm Economizer-type	Liquid Subcooling : 5°C Suction Superheat : 0°C Rotation speed : 2950rpm	Liquid Subcooling : 5°C Suction Superheat : 25°C Rotation speed : 2950rpm Economizer-type	Liquid Subcooling : 5°C Suction Superheat : 25°C Rotation speed : 2950rpm	Liquid Subcooling : 5°C Suction Superheat : 25°C Rotation speed : 2950rpm
Model	Cooling capacity (kW)					
	Absorbed power (kW)					
i125S	Cooling capacity (kW)	33.9	125.9	40.6	154.5	100.9
	Absorbed power (kW)	26.1	35.3	34.4	47.0	26.6
i125L	Cooling capacity (kW)	51.0	188.1	59.9	230.4	153.3
	Absorbed power (kW)	38.1	51.5	49.9	68.5	39.9
i160S	Cooling capacity (kW)	75.2	272.9	89.0	333.9	218.6
	Absorbed power (kW)	55.1	74.3	72.5	98.8	55.9
i160M	Cooling capacity (kW)	94.0	341.6	110.9	418.5	275.6
	Absorbed power (kW)	66.5	89.5	87.3	119.0	68.6
i160L	Cooling capacity (kW)	112.6	409.4	133.2	502.4	332.8
	Absorbed power (kW)	78.9	106.3	103.5	141.4	82.3

* Please consult us for further details.

Outer dimensions



Model	Weight(kg)	W (mm)	L (mm)	H (mm)	
i125S	w/o Motor spacer	330	555	656	799
	NEMA	490	550	831	799
	IEC FF400	440	555	906	799
i125L	w/o Motor spacer	350	535	726	799
	NEMA	510	530	901	799
	IEC FF500	480	560	976	799
i160S	w/o Motor spacer	520	619	773	745
	NEMA	670	694	974	745
	IEC FF500	630	629	1023	745
	IEC FF600	660	682	1023	745
i160M	w/o Motor spacer	560	619	818	745
	NEMA	710	694	1019	745
	IEC FF500	670	629	1068	745
	IEC FF600	700	682	1068	745
i160L	w/o Motor spacer	600	619	863	745
	NEMA	750	694	1064	745
	IEC FF500	710	629	1113	745
	IEC FF600	740	682	1113	745

* The outer dimension drawings illustrate the model i125JL with an IEC FF500 motor spacer.

* Please consult us for further details.