



MAYEKAWA SCREW COMPRESSOR

i-Series



FEATURES



1. Easy alignment

The flanged motor/compressor design provides a simple alignment solution

2. Built-in suction strainer and check valve

The built-in suction strainer and check valve allow for easy maintenance

3. Oil lubrication

The oil lubrication is achieved by differential pressure

4. Bearings

Roller bearings are incorporated in the compressor design

5. Capacity regulation

The capacity is regulated by solenoid valves in 3-steps (100%, 75%, 50%) on the i125 models Further regulation is possible by frequency inverted operation with a speed range of 1500 - 4500 rpm on the i125S and I160S models The i125M, i125L, i160M and i 160L models can operate in the speed range 1500 - 3600 rpm

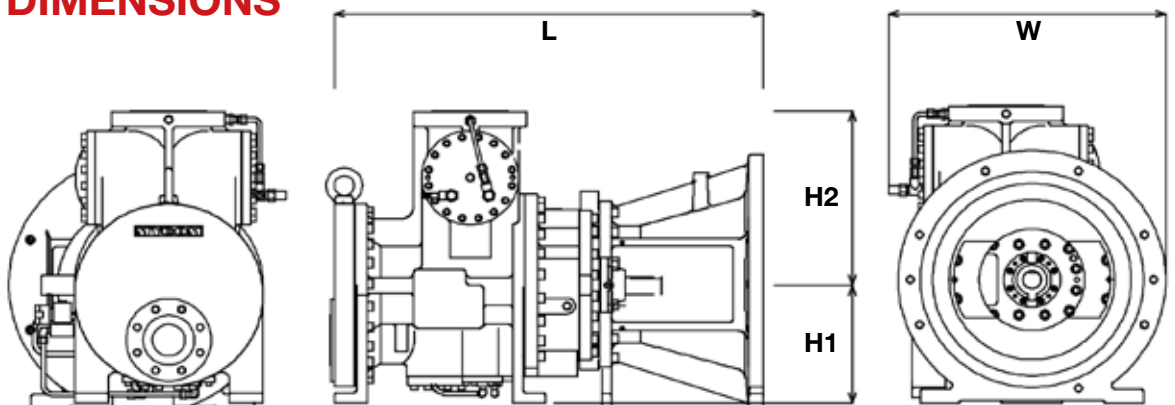
6. Simple structure makes packaging easy

This compressor makes smart packaging possible using its simple piping design

7. High efficiency, low vibration and low noise

The use of Mayekawa's traditional screw rotor profile ensures a high efficiency, low vibration and a low noise level

DIMENSIONS



Model	Dimensions (mm)				
	L	W	H1	H2	H2 without eyebolt
i125S	906,5	550	280	519	448
i125L	976,5	550	280	519	448
i160S	969,5	684	300	445	N/A
i160M	1014,5	684	300	445	N/A
i160L	1059,5	684	300	445	N/A

CAPACITIES

Model	i125S		i125L	
	Evaporating Temperature (°C)	Cooling Capacity (kW)	Absorbed Power (kW)	Cooling Capacity (kW)
0	184,2	36,7	274,8	53,4
-5	151,5	36,0	226,1	52,4
-10	135,1 *	37,0	201,6 *	53,9
-15	110,7 *	35,4	164,9 *	53,4
-20	90,0 *	34,0	133,0 *	52,9
-25	72,2 *	31,7	107,7 *	46,3

Remarks:

Refrigerant: NH₃, Speed: 2950 rpm, Tc = +35°C, Sh = 0K, Sc = 0K

* With DX-economizer

Model	i160S		i160M		i160L	
	Evaporating Temperature (°C)	Cooling Capacity (kW)	Absorbed Power (kW)	Cooling Capacity (kW)	Absorbed Power (kW)	Cooling Capacity (kW)
0	398	77	498	92	597	110
-5	327	75	410	91	491	108
-10	292 *	77	366 *	93	438 *	11
-15	240 *	74	300 *	89	359 *	106
-20	195 *	71	244 *	86	292 *	102
-25	157 *	67	196 *	81	235 *	96

Remarks:

Refrigerant: NH₃, Speed: 2950 rpm, Tc = +35°C, Sh = 0K, Sc = 0K

* With DX-economizer

SPECIFICATIONS

Items		model				
		i125S	i125L	i160S	i160M	i160L
Compressor weight *	kg	530	570	640	680	720
Flange type	IEC	FF400, FF500		FF600		
Speed (rpm)	min ¹	1500 - 4500	1500 - 3600	1500 - 4500	1500 - 3600	
Rotation direction	-	Clockwise looking onto the compressor drive shaft				
Displacement 50Hz/60Hz	m ³ /hr	197/237	296/356	415/499	519/624	622/749
Refrigerant		R717				
Design pressure	barG	26				
Capacity regulation	-	3-steps (100%, 75%, 50%)		3-steps (100%, 75%, 50%)		
Connections	-					
Suction flange		MYCOM 100A (4")		ANSI 300 # 5"		
Discharge flange	-	MYCOM 65A (2 1/2")		ANSI 300 # 3"		
Oil inlet port	-	Rc 1/2		Rc 1		
Economizer	-	Rc 3/8		RC 3/4		
Liquid injection	-	Rc 1/4		Rc 1/2		

* The weight includes the motor spacer flange (excl. the main drive motor)

Remarks:

For the limits of working temperature, pressure and speed, please refer to the "Instruction Manual"

WORLDWIDE

- 40 countries / 127 offices
- 8 production plants



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