



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

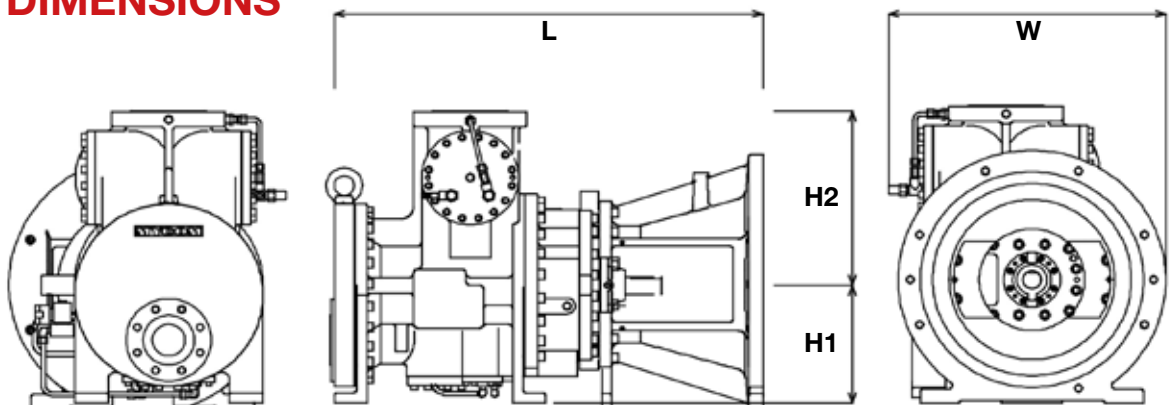
**6. Simple structure makes packaging easy**

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: NH<sub>3</sub>, 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: NH<sub>3</sub>, 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 <sup>1</sup>	1500 - 4500	1500 - 3600	1500 - 4500	1500 - 3600	
Rotation direction	-	Clockwise looking onto the compressor drive shaft				
Displacement 50Hz/60Hz	m <sup>3</sup> /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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