5580 Enterprise Parkway, Fort Myers, FL 33905
Office: 239-694-0089 Fax: 239-694-0031
www.mcscontrols.com

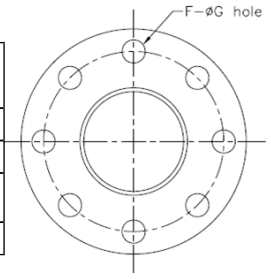
RTM-140
Magnetic Bearing Centrifugal Compressor

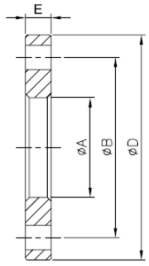
Specifications

Model			RTM-140
Refrigerant			R134a / 1234ez
Nominal cooling capacity		USRT(TONS)	600~700
Compressor	Type		Two-stage compression
Compressor	Axial Guide Vane Control	Inlet Guide Vanes	20~100% continuous
		Voltage	220 VDC
		Input Signal	4~20mA - DC: 1~5V - DC
		Output Signal	4~20mA - DC
Motor	Type		3 Phase, 2 Pole, Permanent magnet
	Starting		VFD
	Voltage	V	460
	Insulation		Class H
	Protection		PT100*9 - Motor Winding(5) - Magnetic Bearing (4)
Transmission	Type		Direct-driven
	Lubrication		Oil free
Hydrostatic pressure test		PSI (kg/cm²g)	321 PSI (22 kg/cm²g)
Dimension (LxWxH) Compressor		FT/M	5.12' x 2.78' x 2.72' (1.56 x 0.85 x 0.83)
Weight (Compressor) 1 skid		LB/kg	3307lb (1500kg) Compressor
Shipping Weight (Components) 1 skid		LB	

Suction/discharge/economizer flange size

Position		Size	A	B	D	E	F	G	Piping Thickness	Bushing OD
RTM-140	Suction	10"	10.88"	14.96"	16.93"	1.34"	0.47"	1.06"	0.37"	10.53"
	Discharge	8"	8.72"	12.00"	13.78"	1.18"	0.47"	0.98"	0.32"	8.51"
	MID-PRESS (Eco.)	4"	5.57"	7.28"	8.86"	0.94"	0.31"	0.75"	0.24"	4.50"
Remarks		*Material- standard JIS 284.47 pounds per square inch steel unit: inches								





Discharge Check Valve Size

To protect compressor from serious damage due to reverse rotation after emergency stop or shutdown, it is necessary to install the discharge check valve.

Warning: Discharge check valve is mandatory

Size	A(in)	B(in)	C(in)	D(in)
4"	2.52"	6.14"	4.41"	2.08"
6"	2.99"	8.38"	6.30"	3.03"
8"	3.50"	10.51"	8.27"	4.01"
10"	4.49"	12.91"	10.24"	4.21"
Remark	*The check valve is of wafer plate valve. Use ANSI 150 standard flange			

Check valve size

MCC

Model	Voltage	(kW)	Primary Side		SECONDARY SIDE (Inverter to RTM)	
	(V)		Hertz	MCC(A)	Hertz	MCC(A)
RTM-140	460	220*2	50/60	342*2	383.3	460*2

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