

Water- or air-cooled chiller
New chiller installation
Existing chiller upgrade

RTM Series Oil-free Magnetic Centrifugal Compressor



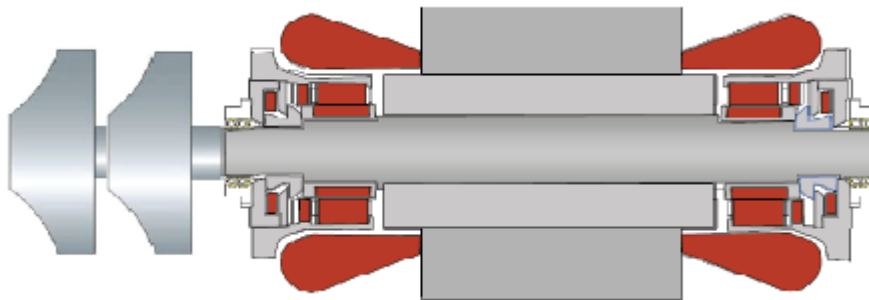
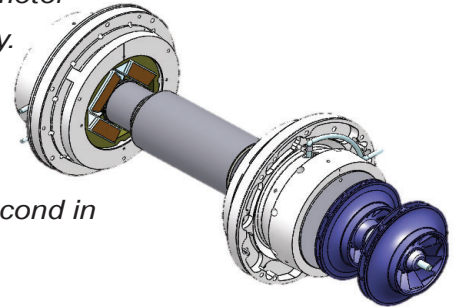
Benefits of RTM Centrifugal Compressor

- *Advanced technology of magnetic bearing and permanent magnet motor*

*Combination of mechanical, electrical, and digital control technology.
Levitated rotor, no bearing friction and automatic control.*

- *Automatic control system*

*Plug-in and easy setup, flexible software adapts various protocols.
Comprehensive monitoring of magnetic bearing, 15000 times per second in
both axial and radial direction*



- *Variable speed drive*

*Modulate cooling capacity matching the varying load of the system
Operate in much more efficient at partial loads than standard compressor
Smoother start, lower inrush current, smaller electrical cable size*

- *Oil free on lubrication*

*Eliminate the need for oil maintenance. Saving on operation and maintenance cost.
Reduced energy losses due to friction, increase heat transfer efficiency on chiller.*

- *Exceptional energy efficiency*

High motor efficiency, less friction loss, great IPLV efficiency with VFD



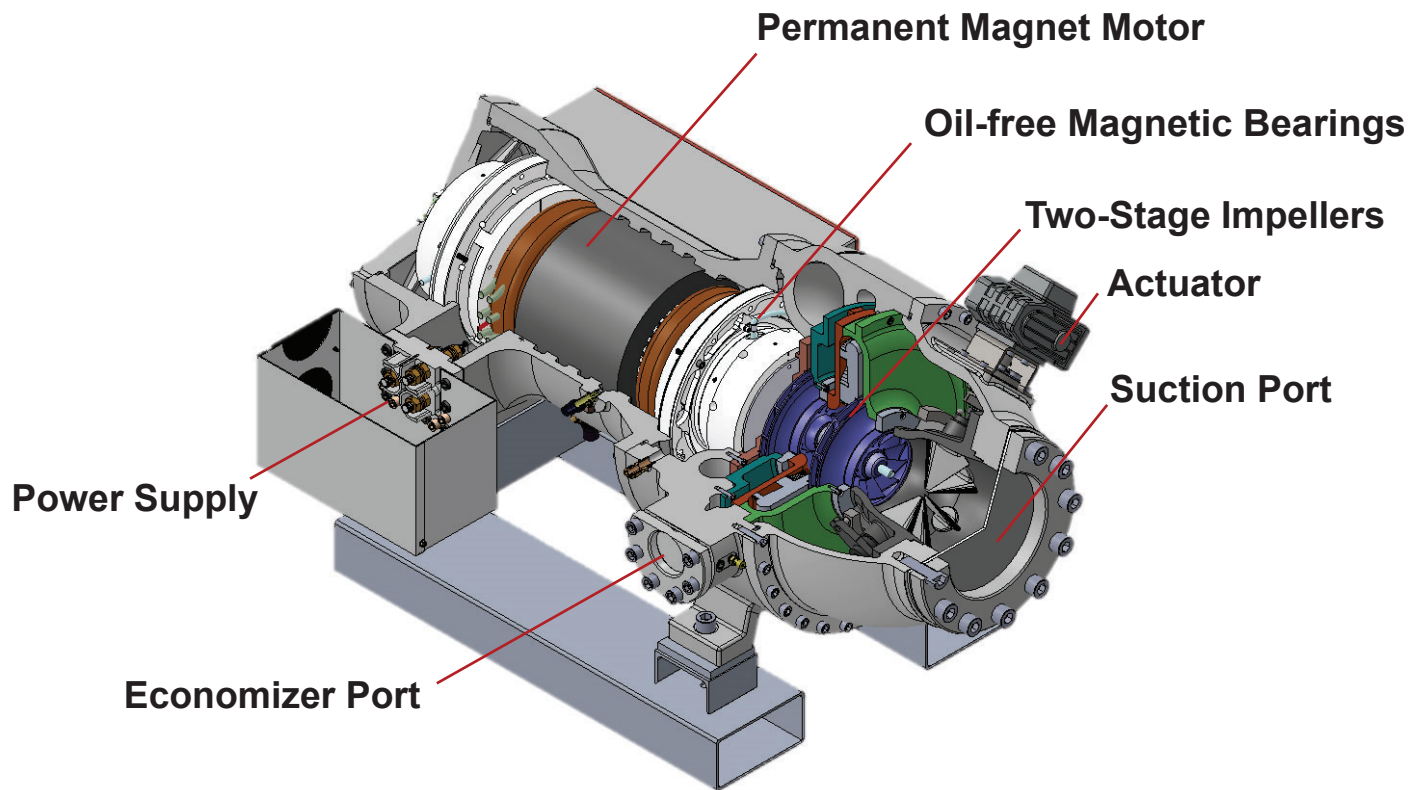
- *Quiet operation, low vibration levels*

*Reduced friction of moving parts, minimum vibration levels
Quiet operation at 74dBA or less*

- *Light weight and compact design*

*Only 20% in size, 45% in weight compare to screw-type compressor at
same cooling capacity.*

Construction of RTM Centrifugal Compressor

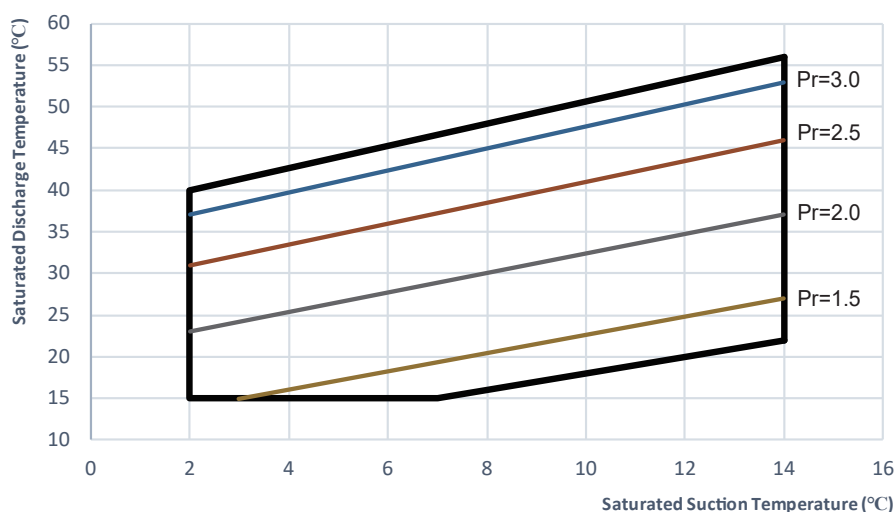


Technical Data

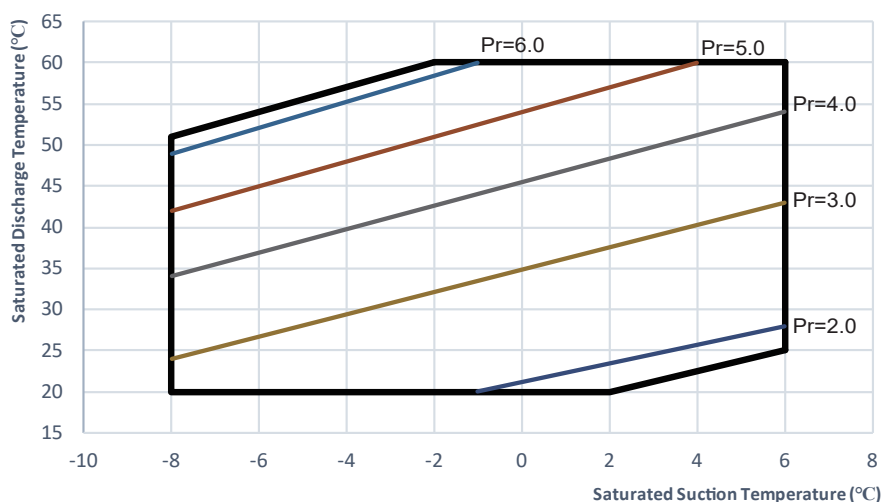
Model		RTM-090		RTM-051	
Refrigerant		R134a, R1234ze			
Nominal Cooling Capacity		USRT	450	250	
Compressor	Type	Two-stage Compression			
	Max. Pressure ratio		3.2	6.0	
	Inlet guide Vane Control	IGV	10%~100% Continuous		NA
	Moveable Diffuser Control	IGV	NA	0%~100% Continuous	
Transmission	Type	Direct-driven			
	Lubrication	Oil-free			
Motor	Type	3 Phase, 2 Pole, PM Motor			
	Starting	VFD			
	Voltage	V	380 ~ 460 ± 5%		
	Insulation	Class H			
	Protection	PT100 * 6			
Dimension (LxWxH)		m	1.3 X 0.8 x 0.7	1.6 X 0.9 x 0.7	
Refrigerant Heater		kW	1x0.3	NA	
Hydrostatic Pressure Test		kg/cm ² g	22	22	
Weight		kg	1050	700	

Application Limits (R134a)

RTM-090



RTM-051



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