



Water-or Air-Cooled Chillers Permanent Magnet Motor Excellent energy efficiency Low noise & vibration levels *R134a*

Oil-free Magnetic Centrifugal Compressor

RTM Series



5580 Enterprise Pkwy., Fort Myers, FL 33905 Office (239) 694-0089 Fax: (239) 694-0031

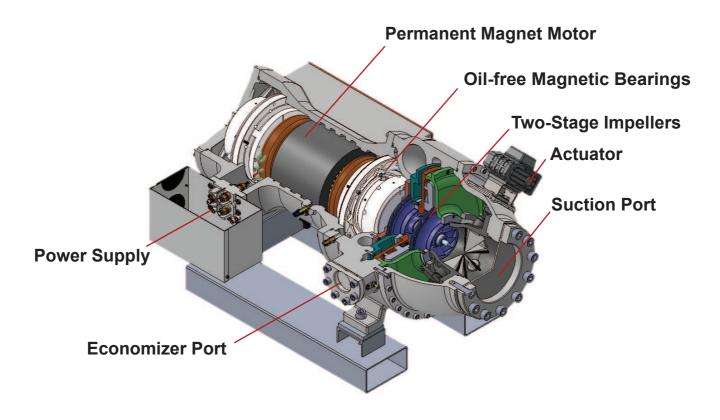
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Features of RTM Centrifugal Compressor

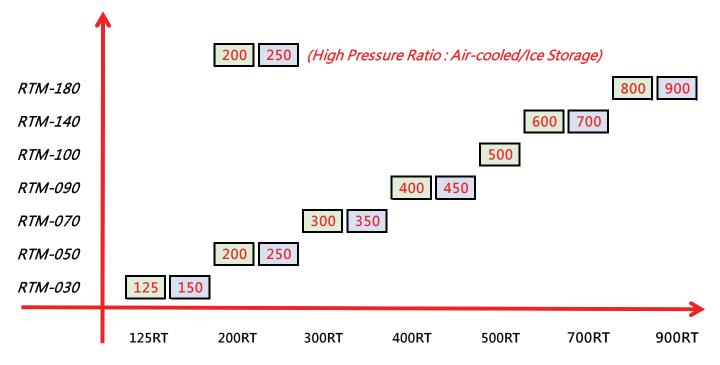
- Advanced technology of magnetic bearing and permanent magnet motor Combination of mechanical, electrical, and digital control technology. Levitated rotor, no bearing friction and automatic control.
- Automatic control system Plug-in and easy setup, flexible software adapts various protocols. Comprehensive monitoring of magnetic bearing,15000 times per second in both axial and radial direction
- Variable frequency drive Modulate cooling capacity matching the varying load of the system.
 Power saving especially at partial load, smoother start, lower inrush current.
- Axial Bearings
- Oil free magnetic bearings Eliminate the need for oil maintenance. Saving on operation and maintenance cost. Reduced energy losses due to friction, increase heat transfer efficiency on chiller.
- Excellent energy efficiency High motor efficiency, less friction loss, high IPLV
- Low noise and vibration levels Eliminate friction of bearings, operation noise lower than 74dBA

Construction of RTM Centrifugal Compressor





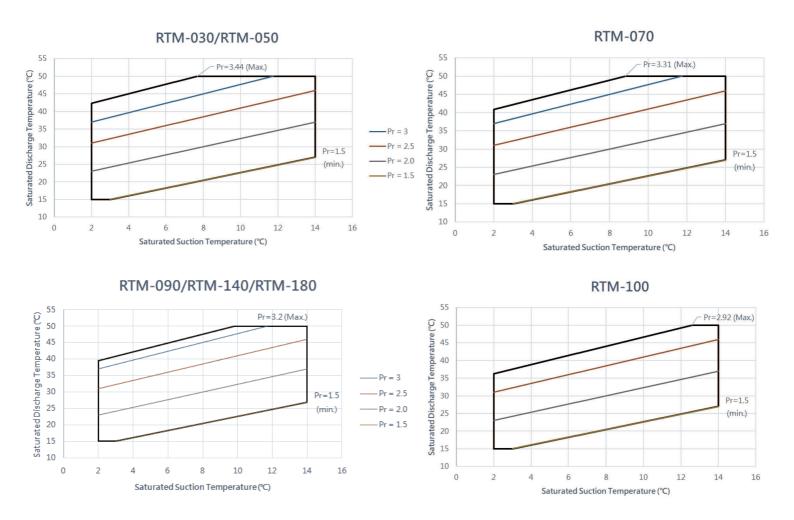
Operation Range



Technical Data

Model		RTM-030	RTM-050	RTM-070	RTM-090	RTM-100	RTM-140	RTM-180
Refrigerant		R134a						
Compressor -	Туре	Two-stage Compression						
	Max. Pressure Ratio	3.4		3.3	3.2	2.9	3.2	3.2
	Capacity (USRT)	125~150	200~250	300~350	400~450	450~500	650~700	800~900
	Rated Frequency (Hz)	367	318	240	225	218	367	302
	Inlet Guide Vane	20%~100%						
	Movable Diffuser Control	N/A						
Transmission	Туре	Direct-driven						
	Lubricant	Oil-free						
Motor	Type (PM Motor)	3 Phase, 2 Pole 3 Phase, 4 Pole						, 4 Pole
	Starting Mode	Variable Frequency Drive (VFD)						
	Power Input	380~460V±5%,50/60 Hz						
	Insulation	Class H						
Dimension LxWxH (m)		1.02x0.62x0.53	1.13x0.74x0.59	1.3x0	.8x0.7	1.34x0.85x0.76	1.58x0.85x0.83	1.82x1.02x0.95
Weight (kg)		350	600	1,0	50	1,250	1,500	1,750
Hydrostatic Pressure Test (kg/cm ² g)		22						

Application Limits (R134a)



%For special operation temperature or application, please contact Hanbell for further discussion%





North American Distributor of Hanbell Compressors

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HBCE-RTM-23-B(500)