



RMTCA Tank Coolers

Application

Perfect solution for villas, resorts, small residential buildings, commercial buildings, schools, mosques and restaurants.

Even in process industries, for the water jacketing of some of the processes where the water temperature band is not very critical



Features

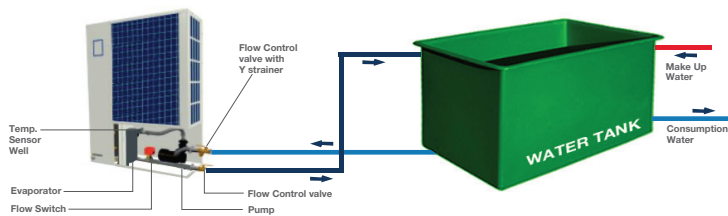
- Faster cooling
- Pure polyester powder coated cabinet
- Tropical design up to 52°C ambient
- Extremely compact
- Ease in service and maintenance
- Low noise and vibration
- Plug-in type construction for faster installation

Main Components

- Available on scroll and rotary compressors
- Stainless steel plate heat exchanger
- Centrifugal pump
- Microprocessor controller



Layout



Richmond®

The Water Heater Experts™

Model No	RMTCA-018TR	RMTCA-024TR	RMTCA-048NS	RMTCA-060NS	RMTCA-090NS	RMTCA-120NS	RMTCA-180NS	RMTCA-270NS
Nominal Capacity (KW)	5	7	13	16	25	35	50	75
Nominal Capacity (TR)	1.5	2	4	5	7.5	10	15	22
Tank Capacity (USG)	1200	1600	3500	4000	6500	8200	13000	18500
Voltage / Frequency / Phase	220-240 V / 50Hz / Single Phase							
Cooling Capacity Rating (KW) @ 35 deg C Ambient	4.92	6.54	13.85	16.17	26.02	33.05	51.68	74.54
Cooling Capacity Rating (TR) @ 35 deg C Ambient	1.4	1.86	3.94	4.6	7.4	9.4	14.7	21.2
Cooling Capacity Rating (KW) @ 46 deg C Ambient	4.01	5.31	11.15	13.15	21.13	26.83	42.23	60.65
Cooling Capacity Rating (TR) @ 46 deg C Ambient	1.14	1.51	3.17	3.74	6.01	7.63	12.01	17.25
Rated Power Input (KW) @ 35 deg C Ambient	1.93	2.53	5.52	6.3	10.02	11.47	19.36	29.25
Rated Power Input (KW) @ 46 deg C Ambient	2.39	3.14	6.96	8.11	12.63	14.45	24.39	36.86
Rated Current (Amps) @ 35 deg C Ambient	10.23	13.41	9.71	11.09	17.64	20.19	34.08	51.5
Rated Current (Amps) @ 46 deg C Ambient	12.67	16.65	12.25	14.28	22.23	25.44	42.94	64.88
Incoming Cable Size	2 Core x 2.5 mm ² Cu 2 Core x 2.5 mm ² Cu 3/8" Core x 4 mm ² Cu 3/8" Core x 4 mm ² Cu 3/8" Core x 10 mm ² Cu 3/8" Core x 16 mm ² Cu 3/8" Core x 25 mm ² Cu 3/8" Core x 35 mm ² Cu							
Type	Brazed Plate Heat Exchanger							
Quantity (Nos)	1	1	1	1	1	1	1 (Dual)	1 (Dual)
Construction material	AlSi316 stainless-steel							
Type	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Quantity (Nos)	1	1	1	1	1	2	2	2
Condenser Type	FTHX (Aluminium Fin & Copper Tube Heat Exchanger)							
Condenser Fins	Anti-corrosive hydrophobic coated aluminium Fins							
Fan blade Dia (Inch)	20"	20"	24"	24"	26"	26"	26"	26"
Fan Motor Qty (Nos)	1	1	1	1	1	1	2	2
Fan Motor Capacity (HP)	0.25	0.25	0.5	0.5	0.75	0.75	0.75	0.75
Fan Motor Air Flow (CFM)	2000	2000	4000	4000	9000	9000	18000	18000
Type	Centrifugal							
Construction material	Cast Iron							
Rated Flow Rate (GPM)	3.6	4.8	9.6	12	18	22.8	36	46.2
Construction material	PVC							
Inlet Connection (NB.)	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Outlet Connection (NB.)	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Refrigerant	R410A							
Refrigerant Charge Qty (Kg)	1.45	2.3	3.1	2.9	7.1	9.4	13.8	16.6
Max Ambient Temp Operation °C	52°C	52°C	52°C	52°C	52°C	52°C	52°C	52°C
Controller	Microprocessor based controller							
Safety Devices	High pressure switch, Low pressure switch, Flow switch							
Electrical Safety	Crankcase heater for Scroll Compressors, Contactor, Overload Relay							
Dimension (WxHxD) mm	1285 x 1057 x 464	1285 x 1057 x 464	1285 x 1359 x 464	1285 x 1359 x 464	1222 x 1687 x 1128	1222 x 1687 x 1128	1222 x 1687 x 2245	1222 x 1687 x 2245
Net Weight (Kg)	105	115	195	230	380	395	660	710

Performance Parameters

Condenser Fan & Motor

Chilled Water Pump

Chilled water Pipe

Chilled water connection

Refrigerant & Ambient Operations

Other Features

Dimensions & Weight