

Chiller MTICH-Series



Chiller is classified as a refrigeration system that cools process fluid or Dehumidifies air in Commercial and Industrial facilities. Chiller will use either a vapor compression or absorption cycle to cool. Chilled water has a variety of applications from space cooling to process uses.

Standard Features :

- Wide range temperature control 7°C-25°C
- Use of high-flow, high pressure pump
- Compact design
- Scroll compressor
- Compressor On/Off delay temperature $\pm 3^{\circ}\text{C}$
- Insulated Water Tank
- Evaporator flow Switch
- Visual Indication for main functions
- Y-Strainer at pump suction
- Easy to maintain
- Sight glass for easy monitoring the refrigerant state.
- SUS Pump for better circulation & long life
- Flexible piping in Refrigerant monitoring connection for better life
- Mechanical auto pressure relief valve cut off at 4 Bar pressure.
- Pressure Gauge
 - Refrigerant Circuit
 - Process Line
- Protections
 - Anti Freeze, Overload, High/Low Pressure, High Temperature/Reverse Phase prevention/Low water temperature/Low water levels.

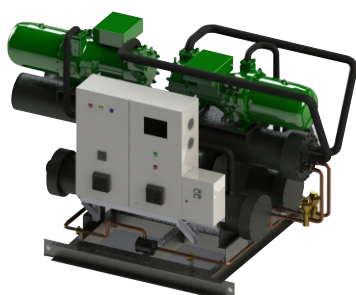
Additional Features :

- Condenser inlet strainer
- Condenser flow switch which ensures flow at condenser inlet in case flow is not passing Chiller will be switched off
- Crank case heater
- Hot gas Bypass valves

- **High performance Refrigerant**
 - HCFC free
 - Environment friendly
- **Dual Circuit with Smart Logic Controller**
 - Power saving upto 30%
- **SS-304 Non-Rusted Hydraulic fittings**
 - High Performance & Durability



Control Panel



Water Cooled Chiller
upto 200 ton of Refrigeration

- Step less Capacity control 15~100%
- VFD control options available along with varying load conditions

Standard operating range 7~25°C
Option available 5~35°C



High Capacity Air Cooled Chiller
upto 200 ton of Refrigeration

Standard Specification

Model		MTICH-3A	MTICH-5A	MTICH-8A	MTICH-10A	MTICH-12A	MTICH-15A	MTICH-20A	MTICH-25A	MTICH-30A
Type of Chiller		Air Cooled								
Power Supply (Hz)		415V/50								
Temperature Range		7°C-25°C								
Cooling Capacity (kW)		11.65	16.95	30.9	35.3	45	59.8	74.3	91.7	119.6
Cooling Air	Temperature Max	40°C								
Compressor	Type	Hermatic Scroll Closed								
	Capacity (kW)	3.58	5.11	8.86	10.05	13.5	17.9	22.1	26.4	17.9 x 2
Condenser, Evaporator		Fin & Tube Type								
Refrigerant	Model	R 407 C								
	Control Mode	ON/OFF								
Medium Pump	Lift (m)	28-49	28-49	28-49	30-51	30-51	30-51	16-40	16-40	47-71
	Flow Rate (LPM)	83-183	83-183	83-183	133-366.5	166.6-466	166.6-466	266-660	266-660	416-916
	Drive (kW)	2.2	2.2	2.2	4.4	4.4	4.4	7.5	7.5	11
	Connection Size (inch)	1	1.5	1.5	2	2	2	2.5	2.5	2.5
Tank Volume (L)		110	130	220	220	220	220	300	300	350
Temperature Controller		Digital Display PID Control								
Alarm	Compressor	OLP, Anti freeze heating, LP, HP								
	Pump	OLP								
	Freezing	Anti Freezing								
Approx. Dimension (L X W X H)		1200x800x1480	1500x1050x1550	2000x1256x1770	2000x1256x1770	2300x1260x1770	2200x1300x1900	2500x1260x2100	2500x1260x 2100	2700x1950x 2030
Approx. Weight Kg		350	475	600	1050	1300	1450	1500	1650	2400

Specifications mentioned are subject to change due to continuous improvement.

Standard Specification

Model		MTICH-3W	MTICH-5W	MTICH-8W	MTICH-10W	MTICH-12W	MTICH-15W	MTICH-20W	MTICH-25W	MTICH-30W
Type of Chiller		Water Cooled								
Power Supply (Hz)		415V/50								
Temperature Range		7°C-25°C								
Cooling Capacity (kW)		13.05	19.10	34.8	39.9	44.1	51	67.5	85	102
Cooling Water/Air	Temperature Max	32°C								
	Flow Rate (LPM)	50	100	150	240	250	300	440	510	530
	Connection Size (inch)	1	1.5	1.5	1.5	1.5	1.5	2	2	1.5 x 2
Compressor	Type	Hermatic Scroll Closed								
	Capacity (kW)	2.81	4.05	7.04	7.95	9.06	10.85	14.25	17.8	10.85 x 2
Condenser		Plate Type Heat Exchanger								
Evaporator (LPM @30°C-3BAR)		50	100	150	270	300	440	510	600	
Refrigerant	Model	R 407 C								
	Control Mode	ON/OFF								
Medium Pump	Lift (M)	20-46	22.5-39	28-49	23-38.5	30-51	30-51	30-51	43-48	43-48
	Flow Rate (LPM)	83-183	83-183	83-183	133-366.5	166.6-466	166.6-466	266-660	266-660	416-916
	Drive (kW)	2.2	2.2	2.2	4.4	4.4	4.4	7.5	7.5	11
	Connection Size (inch)	2	1.5	1.5	2	2	2	2.5	2.5	2.5
Tank Volume (L)		110	110	220	220	220	220	300	300	350
Temperature Controller		Digital Display PID Control								
Alarm	Compressor	OLP, Anti freeze heating, LP, HP								
	Pump	OLP								
	Freezing	Anti Freezing								
Approx. Dimension (L X W X H)		1200x800x1480	1200x800x1480	1760x1000x1700	1760x1000x1700	1760x1000x1700	1760x1000x1700	2500x1300x2100	2500x1300x 2100	2500x1500x 2050
Approx. Weight Kg		350	475	600	1100	1275	1300	1550	1700	2000

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