

MTC Series Modular Chillers

High-Performance R-407C Tempering Units



The MTC modular chiller series provides installation flexibility, reliability, maximum performance, and accessibility for easy maintenance and repair.

These reverse-cycle modules are available in capacities of 24,000-120,000 BTU/Hr (2 to 10 tons). Up to six modules can be staged to achieve higher capacities.

MTC units have extremely large heat exchangers that make it possible to achieve loop water temperatures of 40° F (4.4° C) in cooling, and 120° F (49° C) in heating. This also allows for reverse-cycle heating effectiveness in seawater temperatures as low as 38° F (3.5° C), eliminating the need for separate fossil fuel or electric water heaters in most applications.

MTCs have two sub-modules, identical in dimensions, which allow a sub-module to be rotated to achieve more convenient water connection locations or compressor access. The sub modules can even be separated for remote mounting when space is limited. Sub-module changes can be handled in the field, or special ordered from the factory.

All units have built-in protection devices, including: high- and low-pressure switches, loop-water flow switch, loop-water strainer, hot-gas bypass valve, and loop-water freeze sensor. A wire harness with polarized plug is included for easy electrical connections.

Key Benefits

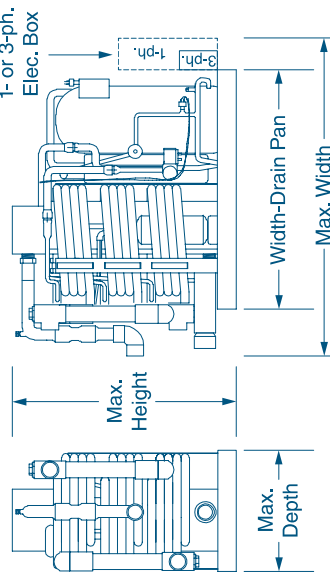
- Modular design for installation flexibility
- Reverse-cycle heating
- Scroll compressors standard
- Dual sub-modules allow more convenient water connections or separation for remote mounting in tight spaces
- Removable seawater manifolds allow cleaning of condenser tubing
- Integrated loop-water strainer and flow switch
- Oversized heat exchangers for loop temperatures of 40°F (4.4°C) in cooling and 120°F (49°C) in heating
- Thermal expansion valve for optimal performance over a range of conditions
- Hot-gas bypass valve maintains heating performance in cold seawater and helps prevent water freezing in the heat exchanger
- Environmentally safe R-407C refrigerant

Specifications for MTC Series Modular Chillers

Model	MTC24	MTC30	MTC36	MTC48	MTC60	MTC66	MTC72	MTC96	MTC120
Capacity (BTU/h)	24000	30000	36000	48000	60000	66000	72000	96000	120000
Voltage (V) ¹	230	230	230	230	230	380	230	380	230
Cycle (Hz/Phase Ph)	60/1	50/1	60/1	60/1	60/1	50/3	60/3	50/3	60/3
Full Load Amps (FLA) Cool (A)	6.8	7.6	9.1	13.3	14.9	6.8	8.6	19.6	12.8
Full Load Amps (FLA) Heat (A)	10.4	10.8	13.1	17.4	21.1	12.2	18.1	24.9	16.2
Locked Rotor Amps (LRA) (A)	68	71	55	95	137	67	128	195	118
Refrigerant Type	R-407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C
Max. Height (in/mm)	17/432	17/432	23.5/597	23.5/597	23.5/597	23.5/597	23.5/597	26.8/681	26.8/681
Width-Drain Pan (in/mm)	25.3/643	25.3/643	25.3/643	25.1/638	25.1/638	25.1/638	25.1/638	33/839	33/839
Max. Width (in/mm)	33.7/856	32.3/821	33.7/856	33.5/851	32.1/816	32.1/816	32.1/816	39/991	39/991
Max. Depth (in/mm)	12.8/326	12.8/326	12.8/326	12.7/323	12.7/323	12.7/323	12.7/323	16.6/422	16.6/422
Clearance Mainifold (in/mm)	5/127	5/127	5/127	5/127	5/127	5/127	5/127	6/153	6/153
Seawater Inlet Connection (in/mm)	5/16	3/4/20	1/26	1/26	1/26	1/26	1/26	1 1/4 /32	1 1/4 /32
Chilled Water Connection Size (in/mm)	1/26	1/26	1/26	1/26	1 1/4 /32	1 1/4 /32	1 1/4 /32	1 1/2 /39	1 1/2 /39
Chilled Water Connection Type	FPT	FPT	FPT	FPT	FPT	FPT	FPT	FPT	FPT

¹ For information about voltages not shown in this sheet, please contact Dometic Marine sales at 954-973-2477.

Dimensions



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Specifications and availability subject to change without notice.

Dealer

