

# MTCGV Series Modular Chillers

## High-Performance R-410A Tempering Units



MTCGV 60,000 BTU/hr model shown

New MTCGV R-410A modular chillers provide installation flexibility, reliability, maximum performance, and accessibility for easy maintenance and repair. They are ideal as drop-in replacements for Cruisair MTC R-407C units.

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.

Thermal expansion valves optimize performance over a wide range of conditions, while a hot gas bypass valve maintains heating performance in cold seawater. With reverse-cycle heating effectiveness in seawater temperatures as low as 38° F (3.5° C), the need for separate fossil fuel or electric water heaters is eliminated in most applications.

MTCGV chillers 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, hot-gas bypass valve, and loop-water freeze sensor. A wire harness with polarized plug is included for easy electrical connections.



MTCGV water connections match that of the MTC series for seamless retrofitting.



Compressor vibration-isolation mounts reduce noise and vibration transmission to the mounting surface.



Easily replaceable flow switch.

### Key Benefits

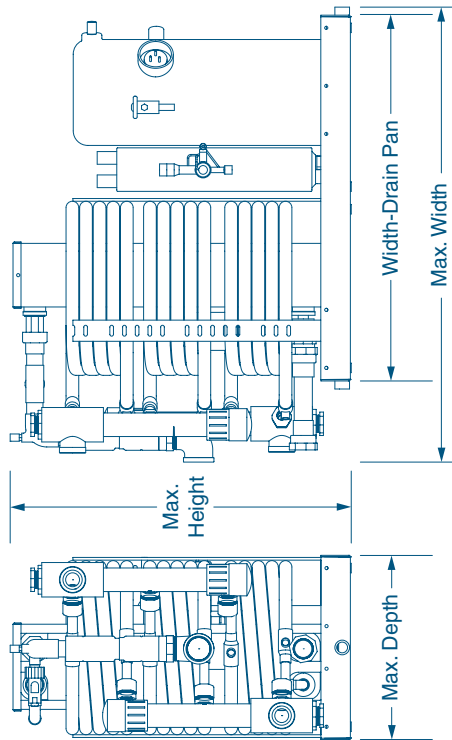
- R-410A replacement for Cruisair MTC chillers
- Modular design for installation flexibility
- Reverse-cycle heating
- Scroll compressors standard
- Dual sub-modules allow more convenient water connections or separation for remote mounting in tight spaces
- Removable seawater manifolds allow cleaning of condenser tubing
- 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-410A refrigerant

# Specifications for MTCGV Series Modular Chillers

Model <sup>(1)</sup>	MTCGV36	MTCGV48	MTCGV60	MTCGV72	MTCGV96	MTCGV120
Capacity (BTU/h)	36000	48000	60000	72000	96000	120000
Voltage (V) <sup>(2)</sup>	230	220	230	230	230	230
Cycle (Hz)/Phase (Ph)	60/1	50/1	60/3	60/3	60/3	60/3
Full Load Amps (FLA) Cool (A)	12	12.3	8.3	5.8	13.8	8.3
Full Load Amps (FLA) Heat (A)	15.7	13.8	10.9	5.8	21.4	6.6
Locked Rotor Amps (LRA) (A)	105	115	95	45	130	60
Refrigerant Type	R410A	R410A	R410A	R410A	R410A	R410A
Max. Height (in/mm) <sup>(3)</sup>	23.5/597	23.5/597	23.5/597	23.5/597	26.8/681	26.8/681
Width-Drain Pan (in/mm) <sup>(3)</sup>	25.3/643	25.1/638	25.1/638	25.1/638	33/839	33/839
Max. Width (in/mm) <sup>(3)</sup>	33.7/856	33.5/851	32.1/816	32.1/816	39/991	39/991
Max. Depth (in/mm) <sup>(3)</sup>	12.8/326	12.7/323	12.7/323	12.7/323	16.6/422	16.6/422
Clearance Manifold (in/mm)	5/127	5/127	5/127	5/127	6/153	6/153
Seawater Inlet Connection (in/mm)	1/26	1/27	1/26	1/26	1 1/4/32	1 1/4/32
Chilled Water Connection Size (in/mm)	1/26	1/27	1 1/4/32	1 1/4/32	1 1/2/38	1 1/2/38
Chilled Water Connection Type	FPT	FPT	FPT	FPT	FPT	FPT

<sup>1</sup> When ordering, add one of the following codes to the model number to specify voltage: 'C' for 230V/60Hz/1-Ph, 'CK' for 220-250V/50Hz/1-Ph, 'DC' for 230V/60Hz/3-Ph, 'EC' for 460V/60Hz/3-Ph, or 'ECC' for 380V/50Hz/3-Ph. For example, MTCGV240C = 230V/60Hz/3-ph unit.  
<sup>2</sup> For information about voltages not shown in this sheet, please contact Domestic/Marine sales at 954-973-2477.  
<sup>3</sup> All dimensions ± 0.30 in. (8 mm).

## Dimensions



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 8:00 AM to 5:00 PM Eastern Time: 800-542-2477  
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 For all other areas visit our website to find your nearest distributor.

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Specifications and availability subject to change without notice.

Dealer

