



TWC24CK

Features

- Compact, enclosed design
- Reverse cycle for cooling and heating
- High-Efficiency rotary or scroll compressor
- Includes flow switch, high and low pressure switches, and inlet and outlet CW temperature sensors
- Large heat exchangers for superior performance in both cooling and heating
- Choice of either TWLC or DDC chiller control (included on unit)
- Electrical box can be remote mounted
- All models use R-410A refrigerant

New for 2006

Cruisair TWC Compact Tempering Unit

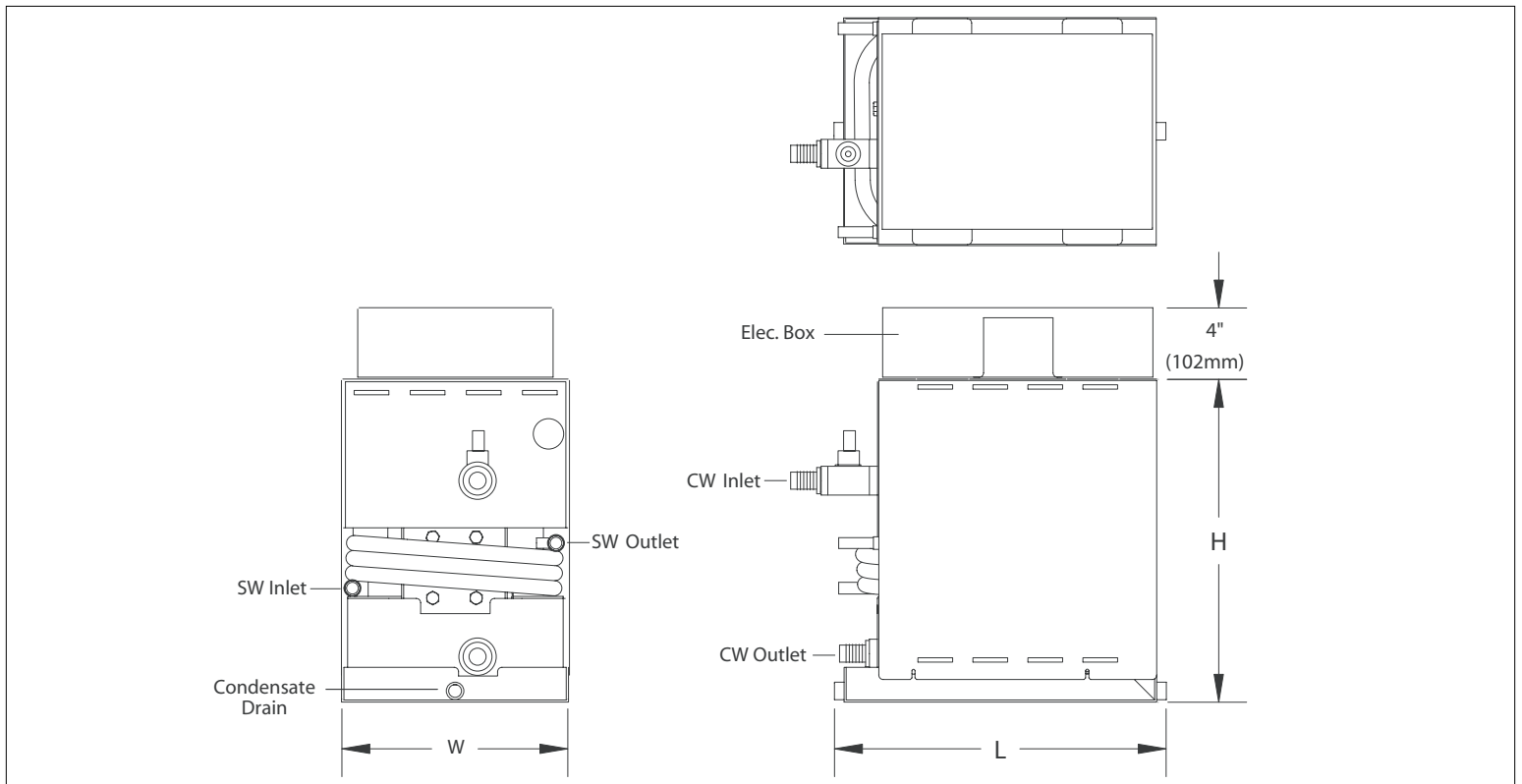
Cruisair's new TWC Compact is a high performance, cost effective Tempering Unit that provides all the advantages of a chilled water system while maintaining the performance levels associated with the Cruisair name. The reverse cycle TWC chiller cools and heats, and is currently available in 24,000 BTU/hr (2-ton) and 36,000 BTU/hr (3-ton) sizes. Multiple units can be installed to achieve the required total capacity.

All TWC chillers come with R-410A refrigerant, which is the preferred environmentally-friendly refrigerant used in modern high efficiency air conditioning systems. The brazed platecoil evaporator and coaxial cupronickel seawater condenser allow for superior cooling and heating performance.

Each unit includes a chilled water flow switch, high and low refrigerant pressure switches, and inlet and outlet CW temperature sensors. Note that this TWC chiller does not include a chilled water modulating flow control. This means that air handlers with or without flow controls can be used, though on larger boats we always recommend using flow controlled air handlers to ensure proper water distribution. A balancing flow control (BFC) is not needed when using TWC chillers.

An electrical box mounted on the top of the chiller houses the control board as well as starting components, and can be remotely mounted up to 6ft (1.8m) away.

Two different chiller control systems are available. The standard control is our proven DDC - Digital Diagnostic Control that provides simple, single-stage operation. For the customer who wants full system control with multi-unit staging and LCD readout of chiller status, the TWLC – Tempered Water Logic Control is available. Depending on the configuration, additional cables, switches, sensors, or a display may be required.



TECHNICAL SPECIFICATIONS

Model	(Btu/hr) ¹	Volt/Hz/Ph ²	Cool	RC	Dimensions (in/mm) ³			Connections		Weight ³ (lb/kg)	Refrigerant
					H	W	L	SW	CW		
TWC24C	24,000	230/60/1	7.5	9.8	18.6/472	13.0/330	18.8/477	5/8" HB	1" FTP/ 1" HB	105/48	R410A
TWC24CK		220/50/1	9.5	11.0							
TWC24DC		230/60/3	5.7	7.3							
TWC24EC		460/60/3	2.8	3.6							
TWC24ECK		380/50/3	3.3	4.4							
TWC36C	36,000	230/60/1	10.9	15.6	18.6/472	13.0/330	18.8/477	2X 5/8" HB	1" FTP/ 1" HB	110/50	R410A
TWC36CK		220/50/1	10.5	12.5							
TWC36DC		230/60/3	8.0	10.2							
TWC36EC		460/60/3	4.1	5.3							
TWC36ECK		380/50/3	4.0	5.6							

NOTES:

1. Nominal capacity shown, as per ABYC guidelines of the compressor manufacturer's ratings.
2. Nominal compressor voltage shown. Refer to chart below for operational voltage ranges.
3. All dimensions are +/- 1/2" (13mm). All weights are +/- 10%.

FLA = Full Load Amperage
LRA = Locked Rotor Amperage

Nominal Compressor Voltage Ranges

230/60/1 = 208-240/60/1 and 190-220/50/1
 220/50/1 = 220-240/50/1
 230/60/3 = 208-230/60/3 and 200-220/50/3
 380/50/3 = 380-420/50/3
 460/60/3 = 440-480/60/3 and 380-420/50/3

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