

MCW Chiller Series

Modular Chilled Water AC Systems



MCW 5-Ton shown

Modular chilled water (MCW) units are available in capacities ranging from 24,000 to 180,000 BTU/hr. MCWs are available in single phase or three phase, 50Hz or 60Hz, and all standard voltages (208, 230, 380, 460 VAC). Modules can be staged together to provide a larger system, which is easily retrofitted and serviced in the field. A maximum of six 15-ton stages could be configured for a total of 1,080,000 BTU/hr or 90 tons. Each refrigerant circuit is hermetically sealed and factory pre-charged with R-22 refrigerant (407C is optional). Each condensing unit is monitored and protected with freeze controls, high limit switches, high and low aquastats, and timers. These condensing units can be installed in any convenient location and are unaffected by vibration, moisture or ambient temperatures up to 140°F/60°C.

Key Benefits

- Compact base design and footprint allows flexibility in space usage and layouts.
- Lightweight aluminum construction provides corrosion resistant durability and enhances ease of installation.
- Individual modules can be multiplexed to provide precise capacity requirements for any application.
- Factory assembled vertical and horizontal multiplexed configurations are available with frames, manifolds and controls.
- Remote-mountable electrical box allows easy access for adjustments or service.
- Matched components provide full rated capacity and assure maximum performance.
- Bi-flow expansion valves balance systems between heat and cool modes.
- Compact stainless steel brazed plate heat exchangers are designed for maximum efficiency using minimum space.
- Condenser coil is constructed of spiral fluted cupronickel to provide maximum heat transfer and high corrosion resistance.

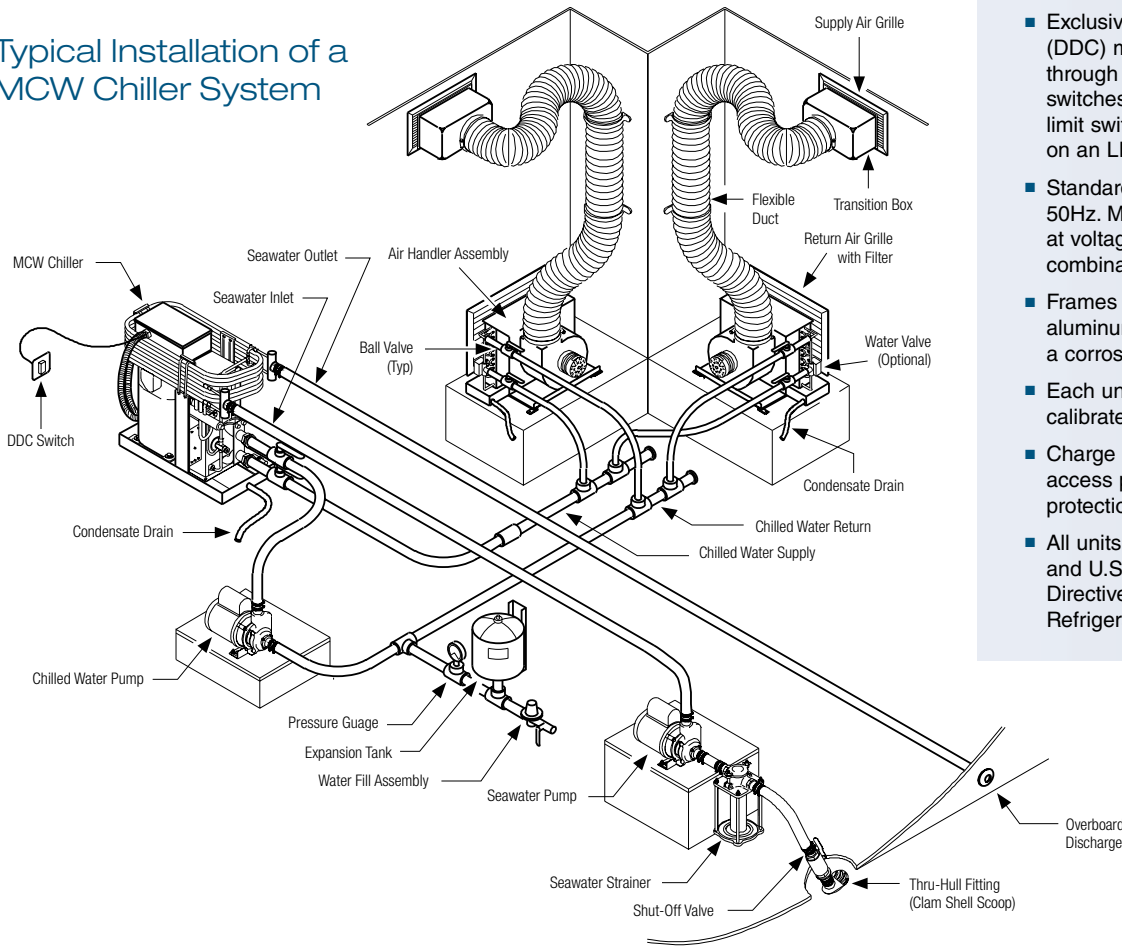
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Technical Specifications for MCW Series

Model	MCW24-*RC	MCW36-*RC	MCW48-*RC	MCW60-*RC	MCW72-*RC	MCW90-*RC	MCW120-*RC	MCW150-*RC	MCW180-*RC
Cool BTU/H	24,000	36,000	48,000	60,000	72,000	90,000	120,000	150,000	180,000
Cool Kcal/H	6,048	9,072	12,096	15,120	18,144	22,680	30,240	37,800	45,360
Reverse Cycle BTU/H	26,400	39,600	52,800	66,000	79,200	99,000	132,000	165,000	198,000
Reverse Cycle Kcal/H	6,653	9,979	13,305	16,632	19,958	24,948	33,264	41,580	49,896
Est. Net Weight (lbs/kg) ⁽¹⁾	107/49	107/49	154/70	176/80	180/82	310/141	390/177	480/218	600/272
Est. Ship Weight (lbs/kg) ⁽¹⁾	194/88	194/88	241/109	263/119	267/121	410/186	500/227	600/272	715/329

Notes:
 * S= Scroll (available in 2-15 ton), R= Reciprocating (available in 2-5 ton, 5-ton at 60Hz only).
⁽¹⁾ Weights shown are for modules using scroll compressors rated at 60Hz, see MCW spec sheet for additional information.

Typical Installation of a MCW Chiller System



Key Benefits (continued)

- Exclusive Digital Diagnostic Controller (DDC) monitors and protects the system through the use of aquastats, pressure switches, timers, freeze controls and high limit switches. All programmed to read out on an LED panel for immediate diagnosis.
- Standard models operate at 60Hz and 50Hz. Models are available to operate at voltage, frequency, and phase combinations to suit customer needs.
- Frames are welded with marine grade aluminum alloy, primed, then finished with a corrosion resistant epoxy.
- Each unit is pre-charged, load tested and calibrated at the factory.
- Charge Guard® protection provides sealed access ports, ensuring environmental protection and system integrity.
- All units meet or exceed applicable ABYC and U.S. Coast Guard regulations, CE Directives and general Air Conditioning and Refrigeration Industry (ARI) standards.

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