



RTCA – Industrial Air Cooled Chillers



Our RTCA is a completely self contained, fully automatic closed-loop system allowing for reduction in water usage. This industrial grade portable chiller and is available from 2 to 24 tons. The chiller is fully wired, charged with R-22 refrigerant and tested under simulated load conditions at the factory before shipment to the job site to ensure easy installation and start-up.

SUPERIOR BY DESIGN

Our use of the highest quality components and a robust design assures a dependable, long lasting, trouble free machine and clean corrosion free environment. Unlike open tank systems, our unique closed-tank design eliminates the problems of low or uncertain city water pressure, the possibility of contaminants entering the system, evaporation and overflow.

HIGHEST QUALITY COMPONENTS

At the heart of the RTCA is the industry respected a Copeland hermetic compressor. All 8 ton and larger units are equipped with multi-compressor systems that will operate independently as the load requires, resulting in energy savings. All compressors come with a 5 year warranty!

All condenser coils are formed and assembled in-house for better quality assurance and design flexibility.

The control panel has been engineered for simplicity using only the finest U.L. approved components.

FULL FEATURED

To monitor the RTCA's operation, we include digital readout of the set point and actual fluid temperature, power, and compressor indicator lights, no flow and 50% load indicator.

CABINET CONSTRUCTION

Each unit is constructed on a rugged, heavy-duty steel base frame. The cabinet and access panels are manufactured from 18- and 20- gauge, sturdy Phos Coat galvanized steel and are finished with a tough chemical and weather resistant polyester powder coat, ensuring years of dependable corrosion protection. We will finish to your color specification on request.

ELECTRICAL SYSTEM

Wired 208/230 or 460 three phase as standard (exception: RTCA-02 is a single phase chiller). Any electrical system can be engineered on request, including 50 Hz systems.

The control panel can be wired for a 24 or 110 volt system, with only the highest standard U.L. approved electrical components. It is safe for outdoor installation (but not wash down duty.)

As an optional feature, JIC or NEMA designed panel enclosures are available.

WATER PATH

The water circuit in the RTCA chiller features a heavy-duty, high head, one horsepower water pump with precision molded LEXAN impeller providing the highest performance and efficiency. Larger pump ratings as well as special application pumps, such as stainless steel, brass or bronze are available. All water piping is 304SS.

COIL IN TANK DESIGN

Exclusive stainless steel coil-in-tank design can be found in every RTCA chiller. This patented design eliminates freeze-up problems such as coil rupture often associated with tube-in-tube heat exchangers. Head pressure on the refrigeration system is not affected by "pressure shock", due to the high temperature return water. The tough, 40-gallon, 16 gauge, 304 stainless steel construction ensures years of efficient, quality operation.

AVAILABLE OPTIONS

Stainless steel pump, Automatic water make-up, special voltage, alternate pump, JIC or NEMA 12 electric panel.