



Series R™ Helical Rotary Liquid Chiller

Model RTWB 200-700 kW



The New Helical-Rotary Water-Cooled Chiller: the RTWB

Trane introduces the new Series R chiller for the medium-capacity water-cooled market, the model RTWB. The RTWB offers a high reliability, ease of installation, and improved energy efficiency, due to its advanced design, its low-speed/direct-drive compressor, and its proven performance.



The main characteristics of the RTWB are:

- High reliability
- High energy efficiency
- Quiet operation
- Compact size
- Bolted construction
- Dual independent refrigerant circuits
- Adaptive Control

Reliable

The Trane Company is the world's largest manufacturer of large helical-rotary compressors. Extensive research and development, testing, and advanced manufacturing processes provide a very reliable compressor.

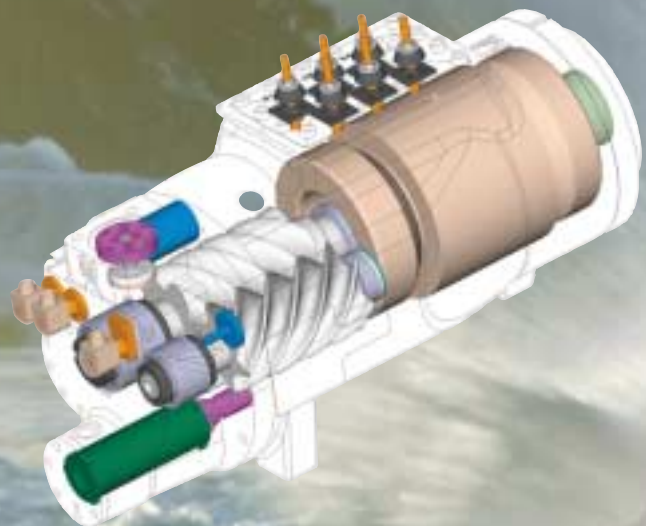
Tens of thousands of commercial and industrial installations worldwide have proven that the Trane helical-rotary compressor has a reliability rate of greater than 99.5 percent in the first year of operation.

How does Trane achieve world-class standards? The Trane Series R chiller

uses a direct-drive, low-speed, semi-hermetic compressor design, with only four moving parts.

Because there are no gear-boxes, shaft seals, or shaft alignment problems, there is less chance of failure and thus lower maintenance costs and fewer service calls. In addition, the semi-hermetic design means that the compressor motor operates in a cool, clean, constant-temperature environment. This increases the motor life. The Series R chiller utilizes the most advanced controls in the chiller

industry. It features the Adaptive Control™ microprocessor, which has the ability to keep the chiller operating and producing cold water during extreme operating conditions, when other chillers would trip off.



Ease of Installation

The compact RTWB chiller is an excellent choice for any retrofit or replacement job. It is smaller than most of the units it might replace and easier to fit into existing buildings. All units fit through a standard single door. For extremely tight installations, the standard bolt-together design allows for easy unit disassembly.

Units come from the factory fully charged with refrigerant and oil. Extensive factory testing helps ensure trouble free start-up, resulting in lower installation costs and faster start-up.

Only three operations are needed before starting the chiller:

- Bring the power to the single unit power connection point. The control power transformer is standard on the RTWB.
- Connect the condenser and the evaporator to the water circuit. The RTWB is delivered standard with flange connections.
- Connect the water-flow switch to the unit control module.

Easy handling

The RTWB can be easily moved by using a fork lift, a crane and slings, or steel rolls.

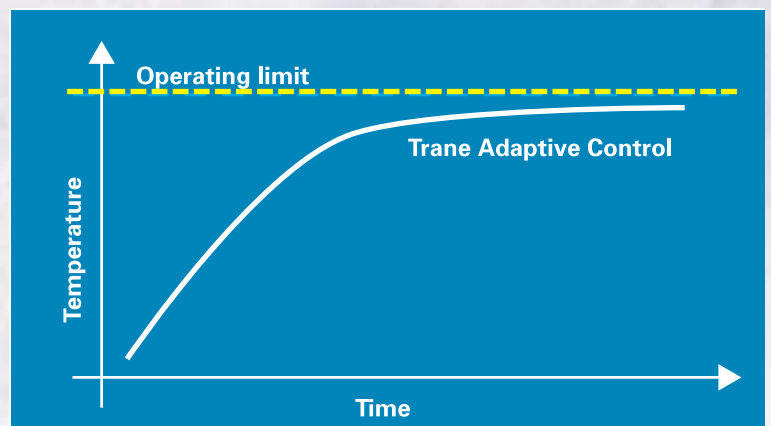


Controls

Trane's Adaptive Control™

microprocessor is the most advanced chiller controller available in the air conditioning industry. It offers internal control logic that monitors the chiller's operation and keeps it running during extreme operating conditions. While controls on other chillers will shut down machine operation, the Trane Series R chiller will modulate system components to keep the chiller operating producing chilled water, meanwhile continuing to optimize chiller performance.

The unit control panel has the ability to display information in many different languages and includes diagnostics and operating points.



Applications

The highly reliable semi-hermetic design, combined with an Adaptive Control™ microprocessor, allows the Series R chiller to be used in a wide variety of applications including:

- Comfort cooling
- Industrial process cooling
- Heat pump
- Low-temperature process cooling

The flexibility in the application of the Series R chiller makes it ideal for office buildings, hospitals, schools, retail buildings, and industrial applications.



General data

RTWB		207	208	210	211	212	214
Cooling capacity	kW	205	230	280	315	335	400
Length	mm	2900	2900	4150	4150	4150	4150
Width	mm	890	890	890	890	890	890
Height	mm	1800	1800	1850	1850	1850	1850
RTWB		216	217	218	220	222	224
Cooling capacity	kW	435	465	515	550	630	675
Length	mm	4150	4150	4150	4150	4150	4150
Width	mm	890	890	890	890	890	890
Height	mm	1850	1850	1950	1950	2020	2020

Integrated Comfort™ System

The water-cooled Series R chiller, with its factory-installed unit control panel, combines with a Trane Tracer Summit™ building management system form part a Trane Integrated Comfort System (ICS). An ICS is a building comfort system comprised of Trane equipment, unit controllers, and building management. The Trane ICS provides comfort, efficiency, and reliability, as well as single-source warranty and service.

With Trane ICS, every component is engineered to work as a complete system. Efficiencies are higher because the components are optimized to work together. And owning the system is easier because it is manufactured, installed, and serviced by a single source.

In the central plant, Trane Integrated Comfort Systems offer chiller plant optimization, including pumps and cooling towers, monitoring, and reporting.





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Supersedes	New
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Stocking Location	La Crosse
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Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.

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