

Series R™ Helical Rotary Screw Model RTHD



Help enhance your building's performance today – with the right balance of efficiency and reliability.

The built environment landscape is rapidly changing. Building owners, engineers and architects alike are seeking solutions to help reduce CO₂e emissions. Industry standards, local and federal legislation and customer expectations are all evolving to align towards a future of buildings that operate on lower global warming potential (GWP) refrigerants and modern technologies with advanced system controls.

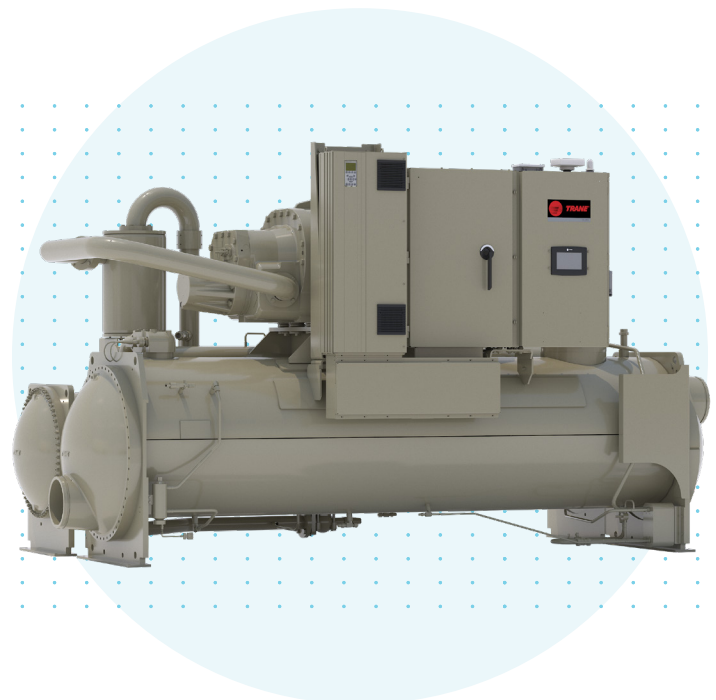
Trane®, a leader in climate innovation, is ready to meet the changing landscape with a portfolio of reimagined HVAC solutions. We have elevated the performance and versatility of our Series R RTHD helical rotary screw chiller by incorporating key updates to enhance operational efficiency and sustainability.

Application Flexibility to Suit Your Needs

A proven workhorse, the Series R RTHD chiller can be configured to produce leaving evaporator solution temperatures as low as 5° F (-15° C), making it ideal for cold-temperature applications like quick freezing in ice rinks, process-cooling in industrial settings or ice generation in thermal energy storage systems. In heat recovery, the RTHD chiller can generate condenser water temperatures as high as 111° F (44° C) for reheating air at VAV boxes, preheating air for air handlers, snow melt and other heating processes.

Lower Environmental Impact, Advanced Controls

The RTHD chiller uses R-513A refrigerant for comfort cooling, offering a 55% reduction in GWP compared to R-134a. The Symbio® 800 equipment controller integrates seamlessly with building automation systems, allowing you to connect to an array of Trane solutions that grant access to detailed energy usage dashboards, perform various efficiency and chiller performance analyses, and provide actionable insights on equipment enhancement opportunities.



Compact Size for Easier Installation

Designed for faster, easier, more cost-effective installation, RTHD chillers may immediately add value to new construction and retrofit projects. Its compact footprint will fit through a standard double-door (72 inch x 80 inch) for easy installation while bolt-together construction allows access through even smaller passages.

Reliability You Can Count On

The RTHD chiller offers reliability that you can count on, with a helical rotary screw compressor that uses a direct-drive design with fewer moving parts, helping to improve the uptime, precision and efficiency of the unit.

Series R™ RTHD Chiller Options and System Enhancements



Advanced Controls

The Symbio® 800 controller features pre-programmed sequences of operation to help offer seamless performance. It also enables connectivity with the Tracer® SC+ building automation system for even more system enhancement.



Thermal Energy Storage

When coupled with thermal energy storage (TES) tanks, the RTHD chiller can be used during off-peak hours to create ice, which is then stored in modular tanks for use in cooling during peak hours the following day.



Heat Recovery

With heat recovery, the RTHD chiller can recover heat rather than rejecting it, providing hot water and tight temperature control that lowers operating costs by reducing boiler/hot water heater usage.



Adaptive Frequency Drive

Enhance chiller efficiency at reduced loads with the fully integrated variable-speed drive. This advanced drive works with the chiller motor and Symbio 800 controller to continuously match compressor speed to required levels.



Air-Fi® Wireless

Air-Fi Wireless is an innovative communication technology for Trane® products and systems that assists in enabling secure, reliable, open protocol wireless communication.



To learn more about the comprehensive capabilities of our **Series R RTHD chiller**, visit **Trane.com/Series-R** or **contact your Trane Account Manager**.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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