

# Series R<sup>®</sup> 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 designers, owners and occupants alike are seeking solutions to help reduce CO<sub>2</sub>e 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 cleaner technologies with enhanced system controls.

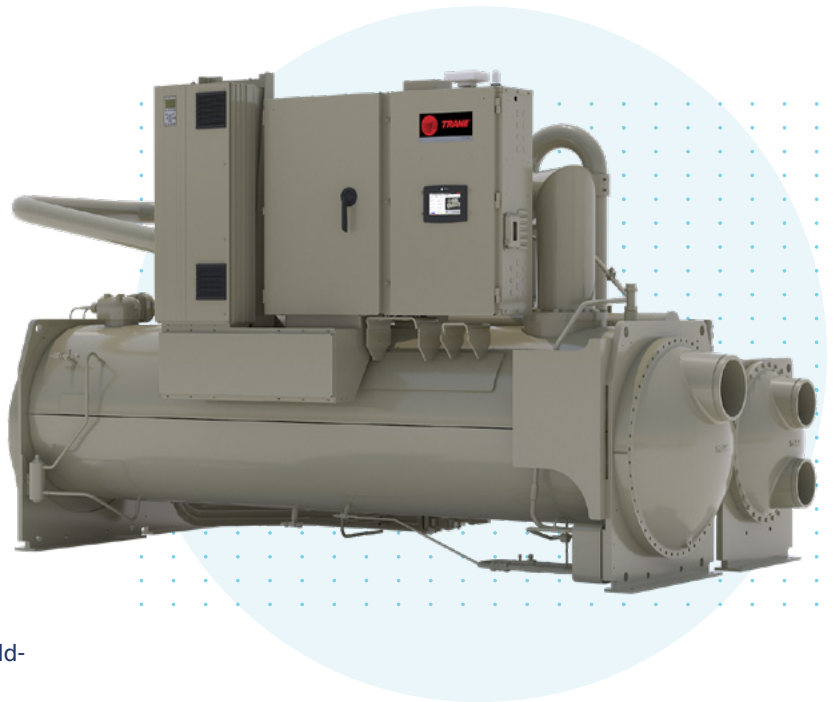
Trane<sup>®</sup>, a leader in climate innovation, is ready to meet the changing landscape with a portfolio of reimagined HVAC solutions. We have elevated the performance and versatility of our Series R RTHD helical rotary chiller by incorporating key updates to enhance operational efficiency and sustainability.

### Application flexibility to suit your needs

A proven workhorse, the Series R RTHD 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 applications, a Trane RTHD chiller can generate condenser water temperatures as high as 111° F (44° C) for heat recovery or for reheating air at VAV boxes, preheating air for air handlers, snow melt and other heating processes.

### Environmentally friendly refrigerant and updated controls

The RTHD chiller uses R-513A refrigerant for comfort cooling, offering a 55% reduction in GWP compared to R-134a. Symbio<sup>®</sup> controllers integrate with building automation systems, allowing you to connect to an array of Trane systems, access detailed energy usage dashboards, perform various energy efficiency and chiller performance analyses and receive actionable insights on equipment optimization opportunities.



### Compact size for easier installation

Designed for faster, easier, more cost-effective installation, RTHD chillers may immediately add value to new and retrofit projects. Its compact footprint will fit through standard double-width doors 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 compressor that uses a direct-drive design with fewer moving parts, helping to improve the uptime, precision and efficiency of the unit.



## 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.



## Ice-Making

When coupled with Thermal Energy Storage Tanks, the RTHD chiller can be used to make ice during off-peak hours for cooling and heating during peak hours the following day.



## Heat Recovery

Recover heat from the chiller rather than rejecting it when there is a simultaneous heating and cooling load, 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.



For more information visit [Trane.com/chillers](https://www.trane.com/chillers)  
or **contact your Trane Account Manager**



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RLC-SLB052-EN  
11/21/2024