Series R[™] Helical Rotary Screw Model RTWD



Expanded heating capabilities for boiler replacement.

To support a sustainable future, the built environment can help play a role in reducing CO₂e emissions and mitigating the risks of climate change. Finding alternatives to burning natural gas in buildings to generate heat is a key strategy to reaching decarbonization goals. Electrifying the heating load by using renewable energy sources is emerging as a promising path to heating buildings. Legislation and industry regulations are quickly evolving to support these changes.

Amidst this changing landscape, Trane[®] has a reliable, proven solution. We have elevated the performance and versatility of our RTWD helical rotary screw chiller by incorporating key updates to meet our customers' evolving needs. A robust workhorse, the Series R RTWD model offers expanded heating capabilities for a broader array of applications, helping meet building codes for heat recovery and reduce reliance on gas boilers.

Versatility and Precise Temperature Control

RTWD chillers offer versatility for commercial applications that require precise temperature control. As a heat pump chiller, the RTWD offers flexibility for high-temperature needs and can also work with specialized low-temperature applications, providing performance you can count on. Thanks to its compact size, RTWD chillers provide greater design flexibility and can pass through a standard double door opening (72 inch x 80 inch).

Refrigerants for Lower Environmental Impact

The RTWD chiller can help you meet your sustainability goals, utilizing R-515B refrigerant for heating, which is more environmentally friendly and capable of delivering hot water temperatures of up to 165°F (74°C), making it ideal for electrified heating applications. For comfort cooling and low-temperature process cooling, the RTWD uses R-513A refrigerant, with leaving evaporator solution temperatures as low as 10°F (-12°C). Both refrigerants offer a 55% reduction in GWP compared to R-134a.



A Proven, Reliable Workhorse

Trane conducts accelerated life testing that simulates thousands of hours of operation on the helical rotary screw compressor, the heart of the RTWD chiller. The compressor uses a directdrive design with fewer moving parts that improves the uptime, precision and efficiency of the unit. The dual-compressor setup offers redundancy, further improving reliability.

Enhanced Efficiency with Advanced Controls

The RTWD chiller is designed with efficiency in mind. 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.

Series R[™] RTWD 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 RTWD chiller can be integrated into a heating and/or cooling thermal management system to help reduce operating costs, lower carbon footprint, and support renewable energy.



Heat Recovery

With heat recovery, the RTWD 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.



Sound-Reduction Package

For sound-sensitive applications, an optional acoustical treatment can be factory- or field-installed on the compressors.



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 RTWD 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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