Whatever your operating environment, this chiller is made for it.

Air-Cooled
Series R™
Chiller

The next generation of Air-Cooled Helical Rotary Chillers

Another Reliable Source of Chilled Water from Trane
The next generation of the air-cooled Series R™ chiller family.

Reliability
Less Down-time and Maintenance
The Trane Company is the world’s largest manufacturer of large helical rotary compressors. Continuous improvement has led to an in-depth testing and advancing manufacturing process that provides the most reliable compressor in the air conditioning and refrigeration industry. Ten of thousands of commercial and industrial installations (over 100,000 Series R™ compressors) worldwide have proven the reliability of the RTAC rotary compressor. The RTAC has an unequalled reliability rate of 99.5 percent in the first year of operation. Worldwide, few other compressors exceed this reliability rate. Fewer moving parts, fewer critical components, simple design, and ease of maintenance justify their commercial success: more than 100,000 Trane helical rotary screw compressors are operating in the world.

Sound
Improved Acoustical Performance
How does Trane achieve these world-class performance? Stacked RTAC chiller uses a direct-drive, low speed, single-stage, oil-lubricated compressor, which results in fewer moving parts than other compressors on the market.

Efficiency
Lower Operating Costs
The most recent development is the new industry standard for reliability, sound, efficiency, and size. The Model RTAC is the second generation of compressors, air-cooled Series R™ chiller family. This most recent development is the RTAC, an advanced air-cooled chiller. It features advanced design, low speed/direct-drive, and proven Series R™ performance.

The compact size of the RTAC unit makes replacement of older chillers. An RTAC chiller can operate without a water temperature, at the same time increased chiller operating consumption. Not all helical rotary compressors are equally suited to new buildings as well as existing buildings. In an installation where space is limited, the RTAC can operate with a relatively narrow gap in front of the condenser causing only a minor capacity derate. Units come from the factory fully charged with refrigerant and oil. Extensive factory testing helps ensure trouble-free startup, resulting in lower installation costs and easily.

Controls
Trane’s Adaptive Control™ microprocessor is the most advanced chiller controller available. When the microprocessor senses adverse conditions of the chiller and automatically initiates corrective action, especially during adverse conditions. “This is accomplished with the Adaptive Control™ microprocessor, which continuously monitors the operating conditions of the chiller and automatically initiates corrective action, especially during adverse conditions. The Adaptive Control™ microprocessor constantly monitors the operating conditions of the chiller and automatically initiates corrective action, especially during adverse conditions.

Trane chillers are known for their reliability, modularity, and flexibility in a wide range of chilled-water systems. However, the chiller is an essential component of any chilled-water system. Components such as the pumps, valves, filters, water-quality, and controls...
The new industry standard for reliability, sound, efficiency, and size.

Reliability

Less Downtime and Maintenance

The Trane Company is the world’s largest manufacturer of large helical rotary compressors. Continuous improvements in design and manufacturing processes produce the most reliable compressor in the air conditioning and refrigeration industry. Thousands of commercial and industrial installations (over 100,000 Series R compressors) worldwide have proven their reliability and well-known life expectancy. Trane has proven the best way to obtain the best performance and reliability lies in the development of a specific compressor. Faster moving parts, fewer critical components, simple design, and near 14 years of manufacturing knowledge are the ingredients for the industry’s most efficient and reliable of these helical rotary compressor water chillers.

Efficiency

Lower Operating Costs

The Title 24 standard of energy efficiency has been steadily improved since the introduction. With the advent of the Model RTAC air-cooled chillers have further reduced sound levels. Careful design and component selection and isolating the compressor to minimize sound generation and by optimizing the system. The result is a new acoustical standard for air-cooled chillers.

The new industry standard for reliability, sound, efficiency, and size.

Model RTAC

The compact air-cooled RTAC unit offers several communication levels for any retrofit or replacement project. It is equally suited to new buildings as well as existing buildings. The compact size of the RTAC unit makes it an excellent choice for new buildings or an industrial process load. The use of advanced heat transfer technology has made the Series R chiller in an excellent choice for retrofit or replacement projects. It is an excellent choice for retrofits or replacement. The compact size of the chiller is an excellent fit into the layout and landscaping of existing buildings.

Size

Ease of Installation

The compact air-cooled Series R chiller is an excellent choice for retrofits or replacement projects. It is an excellent choice for existing buildings as well as existing buildings. The compact size of the RTAC unit makes it an excellent choice for existing buildings as well as new buildings. The compact size of the RTAC unit makes it an excellent choice for retrofit or replacement projects.

Controls

Trane’s Adaptive Control™ microprocessor is the most advanced chiller controller available. It integrates easily into the performance you can also train a model with the microprocessor. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels and vibration. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces the energy efficiency and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces the energy efficiency and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces the energy efficiency and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels. The Adaptive Control™ microprocessor also reduces unit sound levels. This improves the unit’s energy efficiency, and significantly aids in reducing unit sound levels.
The new industry standard for reliability, sound, efficiency, and size.

Reliability
Less downtime and maintenance. The Series R™ Model RTAC is one of the largest manufacturers of large helical rotary compressors worldwide. Continuous testing and advanced manufacturing processes result in the most reliable compressor in the air conditioning and refrigeration industry. Tens of thousands of commercial and industrial installations with 100,000 Series R™ compressors worldwide have proven the quality and reliability of Trane compressors. The Model RTAC has a proven track record of reliability, sound, efficiency, and size.

Efficiency
Lower operating costs. The Series R™ Model RTAC air-cooled chillers have been designed and engineered to provide the best performance and efficiency in the industry. The Trane compressor minimizes the amount of refrigerant charge, resulting in energy savings and reduced freon emissions. The compressor has been designed to minimize energy consumption and provide long life and low operating costs.

Sound
Improved acoustical performance. The Series R™ Model RTAC chiller is the number one choice for those seeking the quietest operation. With the advent of the new industry standard for air-cooled chiller performance, the Series R™ Model RTAC air-cooled chillers provide the best acoustical performance in the industry. The sound levels of the Series R™ Model RTAC air-cooled chillers are one of the lowest sound levels ever recorded, making it an excellent choice for new buildings as well as replacement equipment.

Size
Ease of installation. The Series R™ Model RTAC air-cooled chillers are designed to meet the demanding requirements of today's environment. The high technology, advanced design allows for trouble-free startup, resulting in lower installation and training costs and a smooth transition to operation.

Controls
Trane's Adaptive Control™ microprocessor is the most advanced chiller controller available in the industry today. The microprocessor aids in improving energy efficiency and provides more reliable operation by minimizing “driver down-time.” This is accomplished with the microprocessor control, which continuously monitors the operating conditions of the chiller and automatically initiates the necessary operating steps, resulting in improved performance and reliability.

Troubleshooting
Troubleshooting is but one component in any chilled-water system. However, the chiller is an integral part of the system. Components such as the pumps, valves, filters, water quality, and controls integrate easily into the chilled-water system. Trane chillers are known for their reliability and flexibility in a wide range of chilled-water systems. However, the chiller is but one component in any chilled-water system. Components such as the pumps, valves, filters, water quality, and controls.
can adversely affect the performance of any system. Proper maintenance of the entire chilled-water system is necessary to yield many years of predictable performance. Trane recommends that a preventive maintenance program be established with a professional service organization. A trained professional can help keep the performance of the chiller and the rest of the chilled-water system, year after year, so you can realize the performance you need.

The Trane Company, with over 250 Customer Solutions and Services Centers located around the world, is uniquely positioned as the professional service organization that can provide you with a wide variety of services to support your complete environmental system.

Refrigerant
The Trane Company is committed to providing the right refrigerant in the right equipment at the right time. Trane, along with ASHRAE, ARI, and the U.S. EPA, actively supports all three major chiller alternative refrigerants: HCFC-22, HCFC-123, and HFC-134a. The Model RTA Chiller was specifically engineered to use the medium pressure alternative refrigerant HFC-134a. This choice allows the RTA to meet world-class chiller design criteria for reliability, efficiency, size, and acoustic performance.

Applications
RTAC is a chiller designed for the industrial and commercial market. RTAC is also a chiller designed for all climates, with high and low ambient units available. This flexibility in the application of the Series R Chiller makes it ideal for office buildings, hospitals, restaurants, telecommunications service providers and industrial applications.

Control Strategies – The Integrated Comfort™ System
With Tracer Summit building management, building operators can use a control, diagnostic, monitoring, and reporting system to monitor individual chillers to the chiller plant or to the entire comfort system. In addition, an Integrated Comfort System provides:

- Optimized Operating Costs
- A Consistently Comfortable Environment
- The Reliability of Direct Digital Controls
- Efficiency from Pre-tested Energy Management Strategies
- Single-Source Manufacturer, Warranty, and Service

Quality
The Trane Company's water chiller systems business unit in Pueblo, Colorado, is an ISO 9001 Certified facility. This level of dedication to quality is what chiller owners have come to expect from Trane, the leader. Each Series R Chiller goes through extensive factory testing and quality assurance procedures.
Any system can adversely affect the performance of any system. Proper maintenance of the entire chilled-water system is necessary to yield many years of predictable performance. Trane recommends that a preventive maintenance program be established with a professional service organization. A trained professional can help keep the system’s performance at the highest level. The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.

The Trane Company
An American Standard Company
www.trane.com

For more information contact your local district office or e-mail us at comfort@trane.com

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• Comfort Cooling
• Industrial Process Cooling
• Ice/Thermal Storage
• Low Temperature Process Cooling

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With Tracer Summit building management, building operators can have both improved building control, diagnostics, monitoring, and reports, exceeding from individual chillers to the chiller plant or to the entire comfort system.

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