

Supporting you in all ways



With hundreds of possible system designs and configurations impacting system efficiency levels, there's lots to choose from. How do you possibly narrow the choices and definitively determine the right HVAC system design for your needs? Amazingly, it's quite easy... with Trane's help.

TRANE BMS EXPERTS

Our BMS experts are there to help you choose effective controls, and put together a complete system equipment including air side systems, like fan coils and air handling units. By integrating a Trane system in your building, you can be confident your entire system is optimized thanks to our expertise in equipment, control and services.

TRANE ANALYZING SYSTEM

Our System Analyzer™ helps estimate building loads and performs preliminary energy and cost analyses of virtually any building, system, and equipment combination.

TRANE ENERGY SUPPORT

For LEED certification, TRACE™ 700 (Trane Air Conditioning Economics) software helps analyze the energy and economic effects of virtually any system configuration. It allows you to manipulate a wide range of variables to create a detailed energy usage profile for your specific building.

TRANE SOFTWARE SPECIALISTS

TRACE 700 software accurately compares the impact of building alternatives. You can test the effects and consequences of different architectural features, HVAC systems, building utilization or scheduling scenarios to see the different economic options for each scenario. This enables you to make genuine life-cycle, cost-based system decisions with absolute confidence.

Trane RTAG air-cooled chillers

Efficient. Quiet. Smart. Reliable.



At Trane we are committed to providing full service solutions that are efficient and reliable, just like our equipment.



ELITE START™

Trane equipment is commissioned by technically competent factory trained technicians. Trane commissioning confirms that the system has been not only accurately installed, but also configured and fine-tuned to operate according to your requirements.

OPERATE AND MAINTAIN

Trane offers technical expertise to maintain or repair your system with a full range of HVAC spare parts - both Trane-specific and generic, coupled with our advanced logistics network, ensures a quick and reliable service.

UPGRADE AND IMPROVE

Trane offers Trane Select Contracts that can be tailored to your needs, your business and your application. They are comprised of several levels of services, ranging from a 24/7 duty to a full 'all parts and labour' coverage which includes life cycle management and maintenance.



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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With minimum running and lifetime costs, plus unfailing dependability at Trane, the new and improved RTAG air-cooled chillers aim to deliver optimum cooling to match your building's requirements.



It's a straightforward book-keeping for any business - less money spent on energy allows you to become a more profitable business.

Operating noise is a significant intrusion into a sensitive building environment such as a hospital.



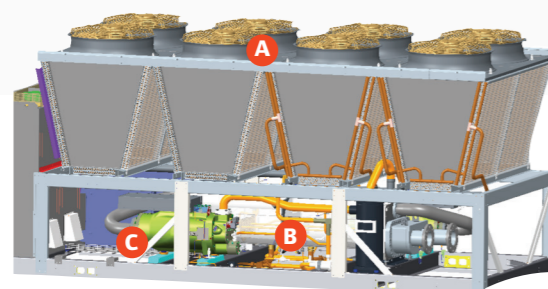
Energy efficiency at its best

THE BETTER THE EFFICIENCY, THE LOWER YOUR ENERGY COSTS

Environmental responsibility and compliance is playing an increasingly important role in everyday decision-making. Ways to reduce waste streams, minimize natural resource use and cut transportation distances are more important, and more readily available, than ever before. RTAG chillers come with Trane's unparalleled experience and expertise in every aspect of HVAC design, and are made to the highest specifications by employing advanced proven technology. That's why we are the best in energy efficiency.

Series	Efficiency Level	COP / IPLV
H	High efficiency	up to 3.15 / 4.6
X	Extra high efficiency	up to 3.35 / 4.8
S/P	High/Premium seasonal efficiency + variable speed	up to 3.2 / 5.7

- RTAG system allows you to choose your efficiency level.
- 125RT and above models are true dual circuits design, so the chiller can offer higher part load efficiency.
- Variable speed compressor for the P Series, and EC motor options for all 3 series are available.
- Self-optimizing controls built in RTAG's condenser fans, sub-cooling control and compressors significantly improve energy efficiency and reduce life cycle cost.
- Fault detection option of condensing fan based on artificial neural network, to avoid high energy consumption operation in case of failure of partial condensing fans.
- High static fan option to offer slightly higher capacity and efficiency.



- A** Self-optimizing on condenser fans.
- B** Self-optimizing sub-cooling control helps maintain proper refrigerant liquid level of evaporator in various conditions.
- C** Self-optimizing on compressors.

Quiet operation to shout about

TOTAL COMFORT WITHOUT DISRUPTION

Our RTAG air-cooled chillers are able to maintain your quiet and comfortable environment for the reason that Trane professional acoustic design ensures low vibration throughout the unit and minimal sound propagation.

Four options of sound attenuation are available in RTAG system to meet the sensitivity needs of your building and your occupants:

Noise Level	Components
Standard noise	Standard components
Medium-low noise	ADDED: 1. Compressor enclosure or refrigeration line insulation
Low noise	ADDED: 1. Compressor enclosure 2. Refrigeration line insulation
Low noise + Night setback	ADDED: 1. Compressor enclosure 2. Refrigeration line insulation 3. EC fan with night setback

High static condensing fan option, which enable field installing air duct or diffuser for lower noise level.



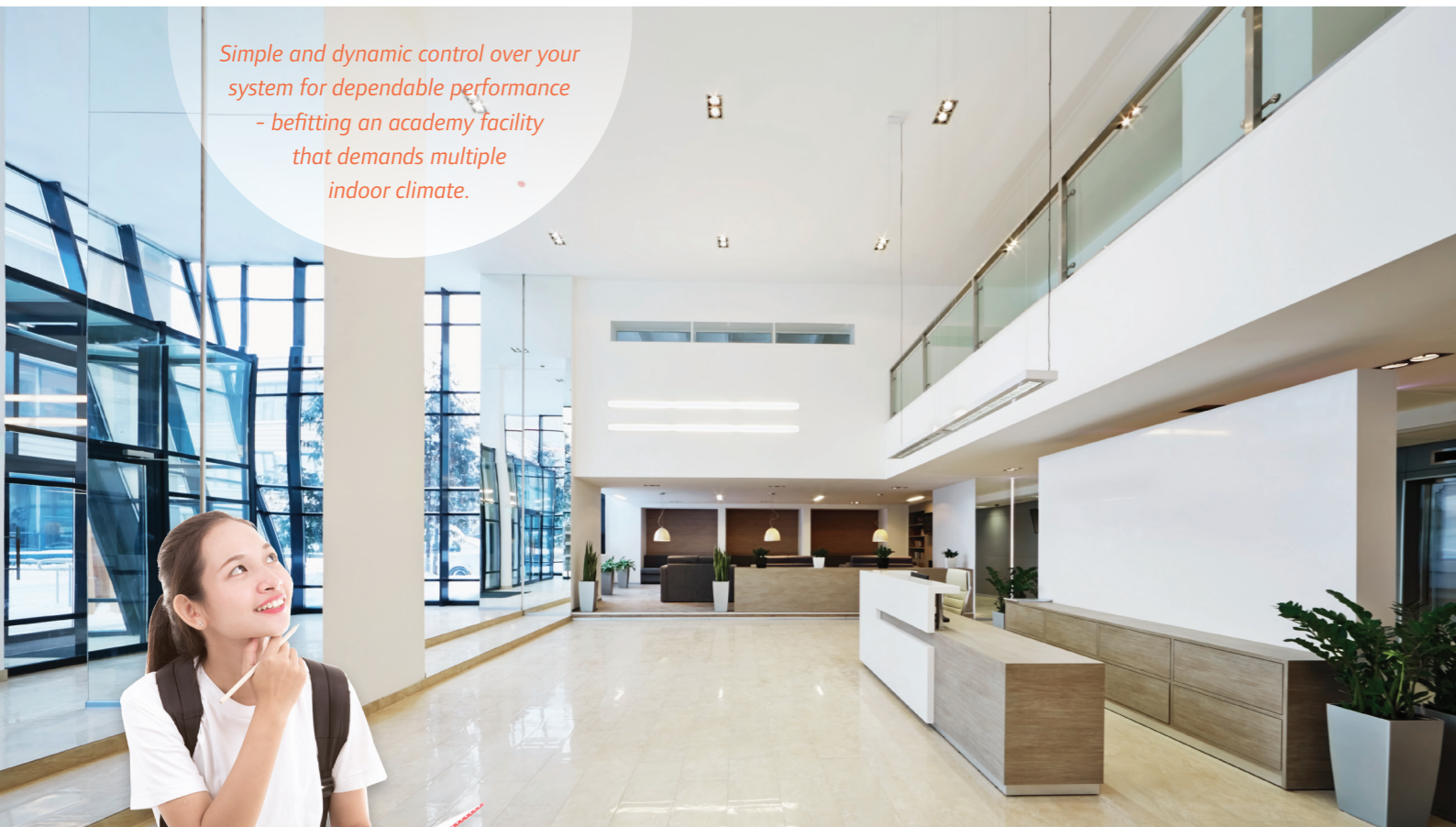
Sound power test confirmed RTAG complies with the requirements of ISO 3744 standard.



Smart controls so you work smarter, not harder

Reliability known and proven

Simple and dynamic control over your system for dependable performance - befitting an academy facility that demands multiple indoor climate.



In climate-critical facilities such as data centers and warehouses, the RTAG chiller system offers must-deliver, uncompromising and time-tested reliability.



INTELLIGENT BUT EASY-TO-USE CONTROLS

Smart controls installed in RTAG chillers safeguard an all-year cooling in ambient from 0°F to 125°F (-18°C to 52°C). Operation could not be easier thanks to a user-friendly touch screen interface and connectivity with the most widely used interoperability protocols today - Modbus and BACnet®.

TESTED TO EXTREMES

At Trane, we don't just build our products; we own patents on them. And we don't just test our products; we push them to the extreme, because if it can't make it through our torturous testing, you'll never see it in your building.

Some of the elements attributing to reliability in RTAG chillers include:

- Trane twin screw compressors give you very high reliability over a wide operating range, thanks to their low-speed, direct drive, and the use of only three moving parts.
- Copper tube/Al fin condenser coil gives high performance and reliability, with multiple coated options for corrosive environment utilization.
- Robust "built-to-last" unit design ensures an efficient and long-life operation.
- Trane's superior production quality control for evaporator, condenser and compressor manufactured in Trane factories.
- Advanced Adaptive Control™ that intelligently modulates chiller operation to keep the chiller online, even in extreme conditions where other chillers would shut down.
- Variable frequency drive operation allows close matching to building or industrial process needs.
- CHIL evaporator uses significantly less refrigerant, offering better heat transfer and higher energy efficiency overall.
- Rapid restart option enables the chiller to restart quickly after power outages. with UPS on UC800 controller, the chiller reboots 15 seconds and achieves 80% loads in less than 2.5 min.

Ambient range options:

- Standard ambient
14~114.8°F / -10~46°C
- Low ambient
0~114.8°F / -18~46°C
- High ambient
14~125°F / -10~52°C
- Wide ambient
0~125°F / -18~52°C

Evaporative applications:

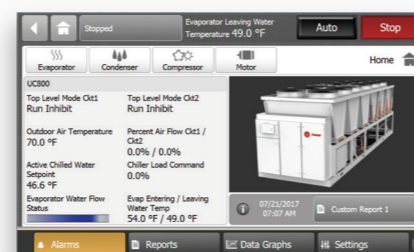
- Standard cooling
4~20°C, cold water
- Process cooling
-10~4°C, antifreeze needs to be added

Trane smart control and interface

- Leading TD7 touch screen with 7" color display.
- Clear display of critical information.
- Monitor settings, data trending, reports and alarms.
- Simple yet intuitive navigation.
- Effective operation, monitoring and management.
- Durable construction for both indoor and outdoor use.

Tracer™ UC800 controller

- New generation of Trane control platform for chillers.
- Advanced algorithms for the most challenging conditions.
- Perfect balance of performance and economy.



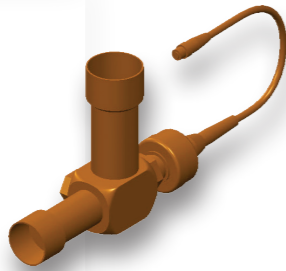
In-depth HVAC know-how

With Trane RTAG air-cooled chillers, your building and its unique needs come first. The focus is on making the most of what's available in your environment and what it needs to become. Here are some noteworthy features of RTAG:



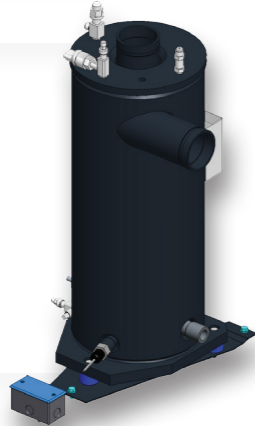
1 ELECTRIC EXPANSION VALVE

- Optimized control logic.
- Improved part load efficiency.
- Reduced power consumption.



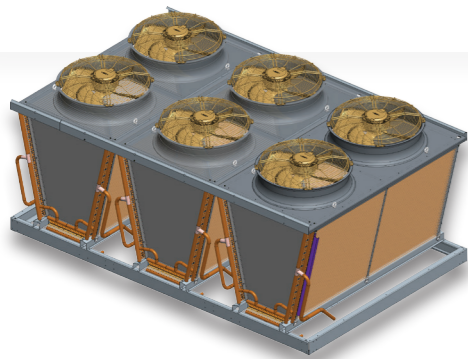
2 OIL SEPARATOR

- Delivers better performance with Trane proprietary design.



3 CONDENSER

- Copper tube/Al fin coil offers high performance and reliability.
- Improved performance with unique design configuration.



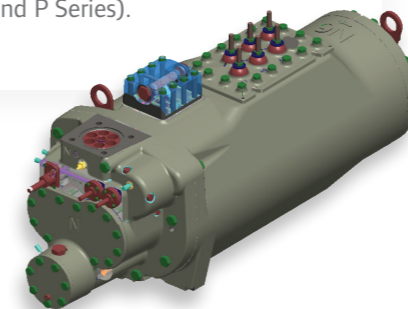
4 SMART CONTROL INTERFACE

- Tracer™ UC800 controller, the new generation of Trane control platform for chillers, offers advanced algorithms for the most challenging conditions.
- Clear display of critical information such as monitor settings, data trending, reports and alarms.
- Advanced algorithms for a dynamic performance and greater reliabilities.
- Durable construction suitable for both indoor and outdoor use.
- Simple yet intuitive navigation for effective operation, monitoring and management.
- The leading TD7 touch screen with 7" color display.



5 TRANE COMPRESSOR

- High-reliability design as a result of direct drive, twin screw, 3 moving parts, etc.
- Improved performance with Trane's new technology.
- Improved part load performance with variable speed technology (VFD for the S and P Series).

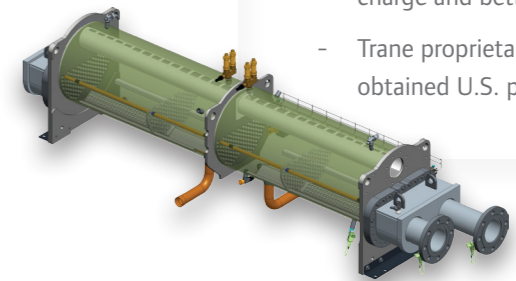


8 SELF-OPTIMIZING CONTROLS

- Built in condenser fans, sub-cooling control and compressors.
- The chiller runs at the best efficiency in any time with optimized EC fan speed/ compressor HZ and slide valve location.
- Reduced life cycle cost.

7 LOW CHARGE (CHIL) EVAPORATOR

- Delivers high performance with small footprint.
- High chiller reliability from lower charge and better oil management.
- Trane proprietary design that obtained U.S. patent.



6 ELECTRONICALLY COMMUTATED FAN

- Operate with high part load efficiency with variable fan speed control.
- Achieve low-noise acoustical level.
- Fault detection option to avoid high energy consumption operation in case of failure of partial condensing fans.

