



**TRANE®**



# *Series R™ RTAC 500-1500 kW*

*Unmatchable value in class A efficiency air-cooled chillers*



# Trane RTAC air-cooled liquid chillers

*Turn to the Trane range of air-cooled chillers and you're opting for a unique combination of 'A' Class performance and outright reliability from a world leader in HVAC systems.*

Trane air-cooled chillers benefit from Trane's unparalleled worldwide experience and expertise in every aspect of HVAC design. Employing advanced proven technology and manufactured to the highest specifications, they have been developed with a single aim – to deliver optimum cooling that will match your building's requirements exactly, at minimum running and lifetime costs, and with unflinching dependability, year after year.

## Value that ticks all the boxes

At Trane we know that, in today's demanding economic climate, chiller performance isn't simply a matter of providing the right volume of cold water at the right temperature. That's why Trane RTAC chillers are specified and engineered to:

- deliver building owners the mix of efficient performance, reliability and low running costs guaranteed to enhance building value and attraction
- provide engineers and building contractors with solutions combining fast, easy installation with efficient operation and low maintenance costs
- offer building users the security, confidence and peace-of-mind that comes from a reliable, effective and cost-efficient air conditioning solution that meets their needs exactly and economically.



## – Performance that pays dividends



### **A Trane chiller to meet your needs exactly**

To ensure that you'll be able to take full advantage of Trane air-cooled chiller performance, cost-efficiency and reliability, Trane offers you a range of six different versions: 3 efficiency versions and 2 sound level versions that will help ensure you get the exact answer to your cooling, floor space and sound requirements, whatever your specific application.

*Trane's diverse range of innovative designs brings the answers to your precise needs.*

#### *Models available:*

- *Extra-high efficiency*
- *Extra-high efficiency for sound sensitive applications*
- *High efficiency*
- *High efficiency for sound sensitive applications*
- *Standard efficiency*
- *Standard efficiency for sound sensitive applications*

*Reliability, efficiency  
and advanced control*

# Excellence you can depend on

*Unlike other suppliers, who assemble systems using components from a range of manufacturers, Trane designs and manufactures all of the essential components: compressor, exchanger, and controls. This ensures that Trane's rigorous quality control procedures are applied at every stage, and that these crucial components work perfectly as a complete system to offer superior, dependable performance.*

## Reliability

- 1 - Trane's helical rotary compressors give you very high reliability over a wide operating range, thanks to their low-speed, direct drive, and use of only three moving parts.
  - Robust "built to last" unit design ensures efficient, long life operation.
  - Trane superior production quality control for evaporator, condenser and compressor manufacture.
- 2 - Advanced Adaptive Control™ that intelligently modulates chiller operation to keep the chiller online, even in extreme conditions where other chillers would shut down.

## Class A

- Variable load compressor operation allows close matching to building or industrial process needs.
- 3 - Falling film evaporator technology uses significantly less refrigerant than a flooded evaporator design, offering better heat transfer and higher energy efficiency overall.
  - 4 - Condenser with integrated subcooler maximizes chiller capacity and efficiency.

## Easy installation

- Single connections – one for electricity, one for water, one for control
- 5 - W-shaped condenser allows for minimum footprint and clearance around the chiller
    - Testing before leaving the factory leads to faster commissioning on-site.
    - Units come already factory-charged with refrigerant and oil.
    - One-piece compact unit.

## Quiet operation

- Designed throughout for low vibration throughout the unit, ensuring minimal sound propagation.
- Low sound level versions available for particularly sensitive applications.

## Maintenance and serviceability

- 6 - Advanced ergonomics for safe and easy access to all main components.
- 7 - Remarkable Adaptive Control™ with its clear language display connectable to your remote monitoring facility offers easy control and access to operating parameters and historical working conditions to maintain peak efficiency.



### Trane testing and manufacturing (ISO 9001) facilities

Trane takes additional steps to fulfil our commitment to the highest level of design and manufacturing accuracy by extensive testing during assembly, including:

- Heat exchanger pressure test

- Leak detection test on refrigerant circuits
- Electrical sequence test

A specific test can be conducted under site design conditions and witnessed by customer representatives if required.

# Expertise to design and optimize HVAC systems

*When you specify a Trane chiller you don't just get a top class product, you also get the expertise to optimize your whole HVAC system and keep your total building operating cost to a minimum.*

Our BMS experts are there to help you choose effective controls, to supervise your installation to achieve peak efficiency and achieve savings by minimizing power consumption.

Trane is the expert in providing advanced and reliable HVAC applications knowledge. Specially designed for multiple chiller installations, the Trane Chiller Plant Control enables savings both on the equipment capital costs and operational costs.

## Complete system equipment offering

Trane not only manufactures chillers, we also produce 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.

*Whether you need one chiller or several working as a system, you have full visibility of performance at a glance, right from your desk.*





## *Peace of mind with service and parts*

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**

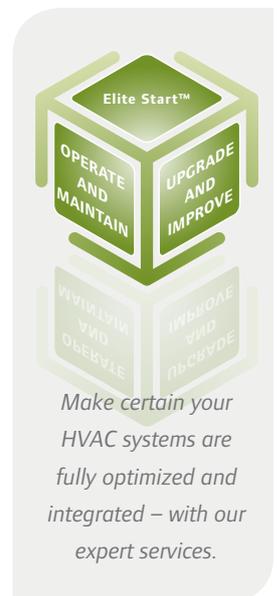
To keep your Trane equipment operating at peak efficiency, Trane offers technical expertise to maintain or repair your system. Our full range of HVAC spare parts, both Trane-specific and generic, coupled with our advanced logistics network, ensures a quick and reliable service. The result? Even in the rare event of equipment failure, downtime is kept to an absolute minimum.

### **Upgrade and Improve**

To help you conserve energy while maximizing cost savings in your building systems and operations, Trane offers:

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

Trane Care Services to offer a wide range of upgrade products to answer your needs in terms of reliability, energy conservation, and respect of the environment.





### How do you choose?

There are hundreds of possible system designs and configurations impacting system efficiency levels. 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.

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

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. Unlike overly simplified spreadsheet-based

energy analyses, 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. And you can see the different economic options for each scenario. This enables you to make genuine life-cycle, cost-based system decisions with absolute confidence.

### Call on Trane

We can help you plan, install and manage your next HVAC system – so you can concentrate on your core business. Our experience and expertise in designing, commissioning and maintaining HVAC systems not only guarantees a solution that best answers your needs, it also gives you complete efficiency and peace of mind.

**Call us, let's talk.**



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