



# *CGWN/CCUN indoor liquid chillers*

*The compact AquaStream<sup>2</sup> solution*



# 'Plug and Play' for unparalleled



**EUROVENT**  
CERTIFIED PERFORMANCE



***Certified performance**  
Eurovent certification  
provides capacity and  
efficiency compliance,  
thus confirming  
and protecting your  
investment and  
guaranteeing peace  
of mind.*

Trane AquaStream<sup>2</sup>® 180-500 kW water-cooled CGWN and condenserless CCUN indoor chillers range combines the latest technologies available to offer an optimum answer for today's air conditioning and process cooling applications, even if very demanding.

Its design follows the 'Plug and Play' concept to offer easy installation and to save space and time on the jobsite. This can be particularly appreciable on fast turnaround projects.

Far beyond effective cooling, the AquaStream<sup>2</sup>® chillers provide unparalleled benefits in terms of:

- Versatility
- Reliability
- Substantial energy savings

# benefits

## Reduced footprint

Trane has designed the indoor AquaStream<sup>2</sup>® range to make the most efficient use of the available installation space. The chiller is smaller than most chillers it might replace, and easier to fit into existing buildings. All units fit through a standard single door. This makes them an excellent choice for any retrofit or replacement job.



## Energy Efficiency

The use of advanced heat-transfer technology in conjunction with the most advanced controls has allowed the AquaStream<sup>2</sup>® chillers to achieve superior energy efficiency levels.

Reducing energy consumptions thanks to increased efficiency contributes directly to the greenhouse warming effect reduction.



# The Trane AquaStream<sup>2</sup><sup>®</sup> range



- 1 Smart controls keep the chiller on line - Trane's Adaptive Control™ CH530 microprocessor is the most advanced chiller controller available in the air conditioning industry. It offers internal control logic that monitors the chiller's operation and keeps it running during extreme operating conditions. While controls on other chillers will shut down machine operation, the Trane AquaStream<sup>2</sup>® will modulate system components to keep the chiller operating and producing chilled water, meanwhile continuing to optimize chiller performance.
  - 2 Reliable Scroll compressor - tens of thousands of Trane Scroll units have been successfully deployed across the globe and our field service engineers have helped us to constantly identify, fine-tune and improve reliability in genuine realistic conditions.
  - 3 High efficiency evaporator brazed plate heat exchanger, allowing significant savings on operating cost.
  - 4 Integrated evaporator hydraulic module pump. It also helps keep overall unit size to a minimum.
  - 5 Separate sections for control box (top) and power supply (bottom).
- Testing before leaving the factory leads to faster commissioning on-site. Units come factory-charged with refrigerant and oil (holding charge in CCUN).



Benefit from faster installation and reduced installation costs. Installation costs are reduced and installation is simplified because you only need to bring main power and water supply to the chiller: the “Plug and Play” concept. The integrated hydraulic module features all necessary components.

- ⑥ High efficiency condenser brazed plate heat exchanger, allowing significant savings on operating cost. It also helps keep overall unit size to a minimum.
- ⑦ Evaporator hydraulic package (pump and buffer tank).
- ⑧ Trane TR Series variable frequency drives - available for condenser water pumps - allow for reduced pumping costs and pump wear, better cooling tower water temperature control.
- ⑨ Condenser hydraulic pump.
- ⑩ Easily removable water strainer to allow fast maintenance and easy cleaning.



## *The single source for all your building ne*

*When you specify a Trane indoor 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 while maintaining the utmost level of comfort.*

### **Heating, ventilating and air conditioning systems**

Depending on your building or process, you may need an air handling unit or terminal units. And here Trane can help as well. As one of the world's leading HVAC equipment manufacturers we can provide the exact solution. Moreover, Trane equipment comes with factory-mounted controllers for integration within a Trane Building Management System.

### **Building Management Systems**

The Tracer Summit™ building management system provides supervision and control through a single, integrated system. Its user-friendly graphical interface, associated with its pre-engineered functions, and standard communication protocols allows you to efficiently pilot your building performance.

**Tracer Summit™** can help you meet your building's temperature, humidity, ventilation and energy management needs, no matter how challenging. High quality, easy-to-use, integrated and reliable controls are the key to maximizing efficiency and to prolonging the life of your building comfort system.

*Peace of mind from  
total accountability*



eds

*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 saving 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 labor’ 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.



*Make certain your HVAC systems are fully optimized and integrated – with our expert services.*



### 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.



Trane optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, Trane offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit [www.Trane.com](http://www.Trane.com).

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.

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