Data Center Solutions

Turning Thermal Management Strategies Into Growth Strategies

TRANE TECHNOLOGIES

EMEA

Why Trane®

With a focus on innovation and performance engineering, Trane works with you and across the AI ecosystem to design, test, and validate state-of-the-art thermal management systems that uphold the highest standards of reliability and efficiency.

As a trusted innovator in thermal management, we offer a portfolio of scalable systems including air- and water-cooled chillers, chiller plant controls, heat recovery solutions, air handlers, and liquid cooling solutions, all supported by a world-class local-to-you service network. Our expertise across design, development, and operation helps ensure that AI, Hyperscale, Colocation and Enterprise data centers achieve optimal conditions, driving performance and sustainability in every environment now and for what comes next.

Trane Capabilities

Integrated and Engineered Systems

Our innovative products, expert services, witness testing, modeling, and ongoing optimization ensure our thermal management systems meet current and future needs.

Chiller Plant Control

An application embedded into Tracer® SC+, chiller plant control optimizes the performance of a chiller plant by efficiently managing the rotation, staging and sequencing of multiple chillers. Our configurable system orchestrator leverages Trane's deep expertise to fine-tune chiller performance, drive energy efficiency and reduce equipment strain—helping you get more from your thermal management investment over time.

Start-Up, Commissioning & Proactive Maintenance Services

Trane ensures uninterrupted operation and peak performance of your equipment, reducing costs and extending its life with reliable, proactive maintenance by over 1,300 highly skilled and trained technicians in EMEA, available 24/365.

Modernization & Optimization services

Trane's digital solutions enable remote inspections, troubleshooting, and facility optimization, helping you manage data center equipment affordably. Use Trane's analytics to create dashboards that enhance building performance, efficiency, and productivity. For personalized guidance, consult with Trane to achieve your financial and environmental goals.

Trane Offerings

Air-Cooled Chillers

Sintesis™ Excellent – Model GVAF
The GVAF air-cooled chiller with magnetic bearing oil-free compressor technology and integrated high-capacity free cooling offers industry-leading partial load efficiency, helping to minimize Data Center Power Usage Effectiveness (PUE). Built-in features such as Automatic Transfer Switch (ATS), Uninterruptible Power Supply (UPS) for controls, and rapid restart capabilities ensure maximum reliability and uptime.


Model GVAF

Sintesis™ Prime – Model RTAF
The RTAF air-cooled chiller, featuring Trane-designed and manufactured screw compressors, offers unmatched versatility for Data Center chilled water production. Operating efficiently in ambient temperatures ranging from -20°C to +55°C, the RTAF chiller delivers competitive full and part load efficiency and includes all the essential features for Data Center applications.


Model RTAF

Water-Cooled Chillers

XStream™ Excellent – Models GVWF
The GVWF water-cooled chiller with magnetic bearing oil-free compressor technology offers best-in-class partial load efficiency, helping to minimize annual energy consumption in Data Centers. Built-in features such as Automatic Transfer Switch (ATS), Uninterruptible Power Supply (UPS) for controls, and rapid restart capabilities ensure maximum reliability and uptime.


Models GVWF

E™ CenTraVac™ – Models CVHH and CDHH
Trane's CenTraVac Chillers deliver high-performance, energy-efficient thermal management solutions for a variety of application challenges with high cooling capacities up to 14 MW. Advanced features help reduce operational costs and environmental impact, making them an ideal choice for Data Center Cooling.


Models CVHH and CDHH

Liquid Cooling Systems

Coolant Distribution Unit 1MW
The LiquidStack CDU-1MW meets rigorous cooling demands, ensuring reliable thermal management for heat-intensive AI factories while optimizing floor space. Features include integrated ATS with supercapacitor, 25-micron filtration, up to 1,350 kW cooling capacity in a compact 900 mm footprint, and front and back service access.

GigaModular™ Coolant Distribution Unit 14MW

The LiquidStack GigaModular™ CDU in 2.5MW to 14MW capacities, delivers efficient direct-to-chip liquid cooling for hyperscale and colocation data centers. This compact Cooling Distribution Unit reduces energy use and costs while ensuring top performance and scalability.

Learn more at
trane.eu/data-center.html

Heat Recovery Systems

Heat is an unavoidable by-product of server rooms, but it can also be a valuable resource. Trane offers a wide range of chillers with integrated heat recovery, designed to capture waste heat and repurpose it to meet local heating requirements. This not only increases the efficiency of your thermal plants but also helps achieve sustainability goals.

Additionally, our high-temperature heat pumps can further boost water temperatures, enabling the use of waste heat for district heating networks and supporting local communities.

City™ and XStream™ – Models RTSF HT and RTWF HT

RTSF HT and RTWF HT water-to-water high-temperature heat pumps are ideal for Data Center heat recovery, reaching hot water temperatures up to 110°C. Both ranges feature Trane-designed and manufactured screw compressors, ensuring top-tier performance and reliability.

Models RTSF HT and RTWF HT

Air Handlers

Computer Room Air Handler

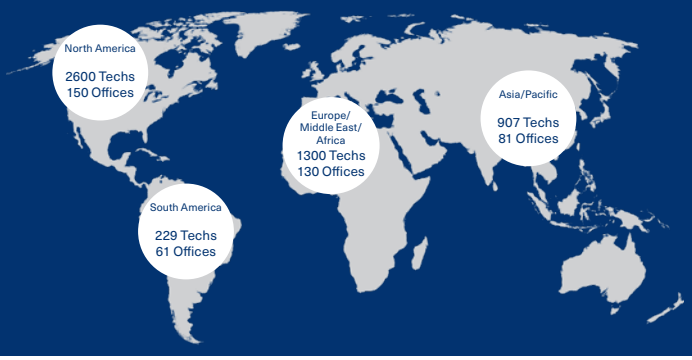
Trane CRAH consists of a damper, a highly efficient heat exchanger with hydrophilic coating, a filter, and an EC fan. The unit cools the air in data centers and consistently maintains the temperature within the optimal range. This ensures the uninterrupted operation of sensitive computer systems. State-of-the-art fans, combined with an optimized housing design, guarantee highly efficient air distribution. Available in five configurations: Upflow, Downflow, Downflow High-Version, Downflow Raised Floor (single-sided/all-sided), and with cooling capacities ranging from 9 to 250 kW.

Fan Wall Unit

The Trane Fan Wall Unit comprises the main functions of a damper, heat exchanger, filter, and EC fan. FWU by Trane have a minimal footprint with maximum cooling capacity, designed for use in large and hyperscale data centres. The system is available with cooling capacities ranging from 80 to 600 kW. No raised floor is required in the data center, only a hot aisle.

World-Class Near You: Service and Support Network

Trane's service network spans the globe, offering unparalleled support to Data Centers of all sizes. Our team of highly trained technicians and engineers is available to provide expert assistance, ensuring your cooling systems operate at peak efficiency. Whether you need routine maintenance, emergency repairs, or system optimization, Trane's global service network is here to help.



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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.eu* or *tranetechnologies.com.*

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