



Data Center Solutions

Improving How Data Centers are Developed, Designed and Operated



Why Trane®

Data center needs are complex. Managing complexity is what we do best. As a thermal management trusted innovator, 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. Whether you are developing, designing, or operating in mission critical environments our goal is to help you create and maintain a more sustainable data center infrastructure that can keep up with evolving demands.

Trane Capabilities

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 Controls



Trane Chiller Plant Controls use optimization strategies that leverage operational data to make targeted adjustments to bring your data center system back to its optimal state which helps manage costs. The result is a more sustainable, optimized, and integrated system that minimizes energy consumption and maximizes uptime.

Start-Up, Commissioning and Proactive Maintenance Services



Trane is committed to the uninterrupted operation of your mission critical equipment and systems, helping to enable peak performance and resource optimization. We can help reduce operating costs and extend the life of your equipment with planned, reliable, preventative and proactive scheduled maintenance and repair by Trane's extensive network of over 1,000 highly skilled and trained technicians in EMEA, available 24/365.

- Service Agreements
- Extended Warranty

Optimization Services



From enabling remote equipment inspections to digital troubleshooting to optimizing your facility, Trane's digitally enabled offerings help you maintain data center equipment and manage your operations more affordably.

Leverage your data and Trane's analytics to create simple dashboards that can help you to understand performance of your building and its assets.

Trane Equipment

Water-To-Water Heat Pumps



City™ and XStream™
Models RTSF HT and RTWF HT
RTSF HT and RTWF HT are water-to-water high-temperature heat-pump ideal for data center heat recovery reaching leaving hot water temperatures up to 120°C. Both ranges feature Trane designed and manufactured screw compressors. RTSF HT capacities up to 400 kW and RTWF HT capacities up to 1,5 MW with R1233zd.

Heat Recovery Solutions

Heat is an unavoidable by-product of data center cooling plants. It can also be a very valuable resource to help operators increase the efficiency of their thermal plants and achieve sustainability goals.

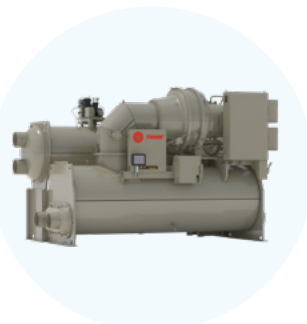
Trane offers a wide range of chillers with integrated heat recovery which can capture waste heat and re-purpose it to meet local heating requirements. And with high temperature heat pumps, water temperatures can be further boosted to serve local communities through district heating networks.



Water-Cooled Chillers



XStream™ Excellent
Models GVWF
GVWF water-cooled chiller with magnetic bearing oil-free compressor technology has the best-in-class partial load efficiency helping to minimize annual energy consumption. Built-in features like ATS, UPS for controls and rapid restart enables maximum reliability and uptime. Capacity up to 2.800 kW with R1234ze.



E™ CenTraVac™
Models CVHH and CDHH
CenTraVac chillers deliver high-performance, energy-efficient thermal management for a application challenges. Advanced features help reduce operational costs environmental impact. Multi-stage compressor; Heating and Cooling capable; Free Cooling; Heat recovery operation, Symbio® 800 controller; 900 - 4000+ tons (3.165-14.067 kW); R-1233zd.

Air-Cooled Chillers



Sintesis™ Excellent
Model GVAF
GVAF air-cooled chiller with magnetic bearing oil-free compressor technology and integrated high capacity free cooling has industry leading partial load efficiency helping to minimize data center PUE. Built-in features like ATS, UPS for controls and rapid restart enables maximum reliability and uptime. Capacities up to 2.150kW with R1234ze.



Sintesis™ Prime
Model RTAF
RTAF air-cooled chiller with Trane designed and manufactured screw compressors offers unmatched versatility for data center chilled water production. RTAF operates between -20°C to +55°C operating ambient at industry-leading high efficiency levels, and offers all the features required for data center applications (rapid restart, free-cooling, heat-recovery). Capacities up to 1.910 kW with R1234ze.

Air Handling Solutions



CRAH and Fan Wall Units
Model CRAH and FWU
Optimized energy efficiency through the use of pressure-independent energy valves, enabling precise airflow control and air temperature. CRAH models available from 9 to 166 kW in multiple configurations. FWU models can be combined to deliver up to 581 kW of cooling capacity and an airflow of 32.750 m³/h.

Liquid Cooling Systems



Coolant Distribution Unit
Model TCDU
This high-performance 1 MW coolant distribution unit ensures reliable thermal management for even the most heat-intensive AI factory environments while optimizing floor space. Integrated ATS with supercapacitor; 25-micron filtration; up to 1.350 kW cooling capacity in a compact 900 mm footprint; front and back access for ease of service.



Learn More →



Trane.eu/DataCenters



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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