

Data Center Line Card

Improving How Data Centers are Designed, Developed and Operated

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, fan coil walls, 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 hyperscale and colocation data centers achieve optimal conditions, driving performance and sustainability in every environment now and for what comes next.

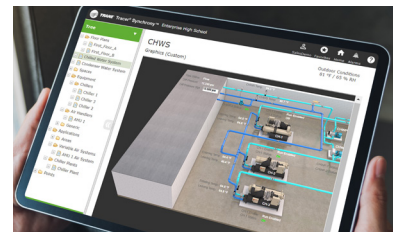


Trane Capabilities



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 2,900 local, data center-trained technicians available 24/365.



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.

- Connected Facility Service
- Data insights with TraneConnect™
- Intelligent Service
- Trane® Autonomous Control

Trane Capabilities (cont.)



Engineer and Contractor Resources

Trane is here to support, enable and educate Engineers and Contractors through comprehensive tools and resources, design and analysis tools, professional education and training, BIM and CAD drawings, and pre-engineered system solutions. traneengineer.com | tranecontractors.com



Energy Services

Trane enhances facility efficiency and sustainability with decarbonization solutions, implementation services, and financing options. Using expertise and data, we develop strategies to achieve your carbon reduction, resiliency, and energy optimization goals.



Trane Offerings



Water-Cooled Centrifugal Chillers

CenTraVac®

CenTraVac chillers deliver high-performance, energy-efficient thermal management for application challenges. Advanced features help reduce operational costs and 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



Models CVHH
and CDHH



Air-Cooled Chillers

Trane® Air-Cooled Magnetic Bearing Chiller

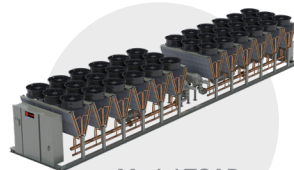
Up to 3MW of cooling capacity using advanced data center controls to deliver superior reliability and uptime, rapid restart, lowest peak power consumption, broad ambient operating range, exceptional off-peak efficiency and quiet operation. 200-850 tons (704-2,992 kW); R-515B or R-1234ze



Model TCAA
200-400T



Model TCAB
400-600T



Model TCAB
600-850T

Trane® Ascend™ Air-Cooled Chiller

Efficiently operates at up to 145°F, addressing the heat from modern GPUs and AI. Features free cooling with a factory-installed water side economizer, reducing initial installation and energy costs throughout its lifespan. 550 tons (1758 kW); R-1234ze



Model ACR
550T

Trane® Ascend™ Trim Cooler

Features high-efficiency free-cooling, leveraging ambient air for cooling. Reduces the need for mechanical cooling, lowering energy usage. Seamlessly integrates directly to Trane thermal management systems, helping to boost system efficiency.



Model ACR
Trim Cooler

Trane Offerings (cont.)



Air Handling Solutions

Fan Coil Wall

The Trane TCDC Fan Coil Wall is an advanced, energy-efficient cooling solution with capacities up to 670kW and 110K CFM, designed to maintain precise temperature. Flexible configurations are designed to handle the rigorous cooling demands of high-density data centers. This helps ensure optimal performance and uptime.



Model TCDC

Computer Room Air Handler

Trane's Computer Room Air-Handler (CRAH) model VCDC delivers unparalleled cooling efficiency, reliability, and scalability for data centers. With a compact design, it maximizes space utilization and supports varied site layouts with downflow horizontal discharge. High-efficiency ECM fans and optimized cabinet insulation work together to reduce energy use, lower operating costs, and support sustainability goals. Covering a 50–300kW capacity range, Trane's CRAH ensures adaptability and robust construction with single or double-wall options, making it the ultimate cooling solution for modern data centers.



Model VCDC



Liquid Cooling Solutions

Coolant Distribution Unit

Trane's 1 MW CDU 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.



Model TCDU
010

Coolant Distribution Unit

Trane's next-gen Coolant Distribution Unit (CDU) in 2.5MW to 10MW 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.



Model TCDU
025-100



Learn more at trane.com/datacenters



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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.com or tranetechnologies.com.

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