TRANE

Performance
Multiplied

Data Center Products and Solutions

Your Cooling Strategy Just Became Your Growth Strategy



Unlock Potential in Your Thermal Management Strategy

Trane helps hyperscale and colocation operators keep critical systems running, control costs and maximize every investment. With modular design, integrated controls and deep data center expertise, we deliver thermal management solutions that perform from Day 1 and adapt as needs change.

From traditional water-cooling strategies to advanced liquid cooling and AI-ready approaches for high-density environments, Trane supports a wide range of modern data center needs. For colocation providers, that means efficient, scalable performance as tenant demands evolve. For hyperscale operators, it means cooling systems built for rising loads, higher rack densities and AI-driven computing.

Across both environments, Trane helps improve energy efficiency so more power goes to compute, not cooling overhead — simplifying operations, protecting infrastructure investments and supporting growth as demand accelerates.



Transforming Vision Into Impactful Strategy

PROVEN THERMAL MANAGEMENT SOLUTIONS

Backed by over a century of engineering expertise, we design thermal management systems built to perform consistently under real operating conditions — and to support long-term adaptability as site requirements evolve.

SPECIALISTS IN INTEGRATED SYSTEMS

From co-design to system-level modeling, we work across your team and the broader AI ecosystem to engineer systems that deliver coordinated performance. Expert services, connected controls and lifecycle support help keep your system performing beyond commissioning — not just at turnover.

TAILORED SERVICE AT SCALE

With 6,000+ technicians, we deliver responsive, scalable support across the lifecycle, local to operations so performance keeps pace with growth, uptime is protected and modernization planning can happen before issues become disruptions.

SUSTAINABILITY-FORWARD

From smart planning and operational adjustments to ecosystem collaborations, we use system-led insight to help improve efficiency, reduce emissions and remain resilient as energy, water and regulatory pressures evolve.

BUILDING AHEAD OF THE MOMENT

We invest in training and position our teams close to your operations to support performance where it matters most, backed by in-region manufacturing, deep experience and solutions designed to move faster from planning to operation.

Where Data Center Challenges Meet Engineered Solutions

From AI-driven heat loads to grid constraints, workforce gaps and pressure to get capacity online faster, today's data centers are facing a new level of complexity. We bring these challenges into focus — connecting thermal strategy, system design, controls and service expertise to help you scale efficiently, get to operation faster and stay ready for what comes next.



GPU-as-a-Service is projected to grow 22.9% (CAGR) 2025-2030[1].

We design scalable cooling systems for increasing heat loads, mixed-density environments and evolving compute requirements.

Workforce shortages are causing an expertise gap, leaving operations vulnerable[2].

Our data-center-trained technicians provide reliable, local service, connected support and expertise to help keep operations stable over time.

Liquid cooling can cut energy use by up to 30% but can present infrastructure and safety concerns if improperly implemented[3].

We deliver fully integrated liquid cooling solutions with expert guidance, system-level coordination and support for safer, more effective deployment.

Some countries are halting new grid connections until 2028[4].

Our thermal energy storage solutions and high-efficiency system approaches help customers manage constraints, reduce waste and make more effective use of available power.

125 GWs incremental GWs of power to support AI loads between 2026 and 2030.

We help reduce grid strain with efficient thermal systems, integrated controls and coordinated optimization that can free more energy for compute.

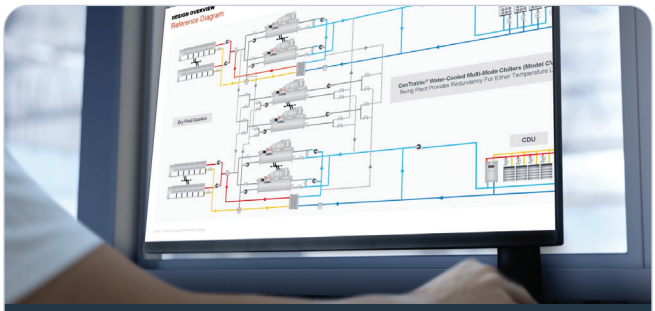
Supply chain constraints and tariffs are impacting access and cost of components[6].

Our in-region manufacturing and global network help reduce delays, improve execution and support faster paths to operation.

We help you enhance efficiency by prioritizing thermal management, enabling smarter scaling and more reliable uptime.

Multiply Performance With Industry-Leading Cooling Solutions From Trane

Think of your thermal management system as a stack comprised of equipment, controls, data and supporting services. Trane pulls all this together as one system, delivering more consistent, efficient and reliable performance.



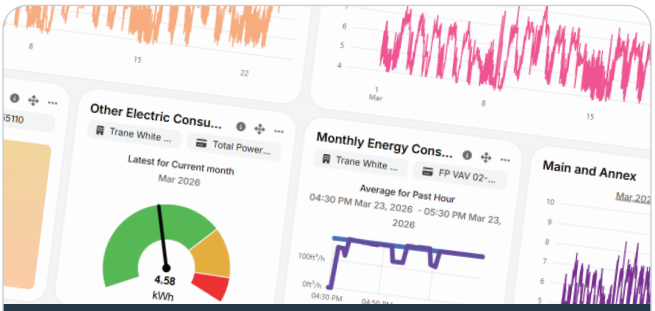
Integrated Systems

Turning complexity into performance

Data center environments are complex, with multiple systems and control layers all interacting under changing conditions. When those pieces don't line up, inefficiencies creep in, performance becomes harder to manage and small issues can become larger operational or uptime risks.

Trane brings equipment, controls, data and services together into one coordinated system. Your thermal management system is co-designed, modeled and tested to perform as intended from the start — with the visibility and flexibility to support changes later.

- Reduce inefficiencies by aligning every part of the system
- Improve results with a solution optimized as a whole
- Respond more confidently as conditions change
- Spend less time managing complexity and more time running your operation
- Build in adaptability for future upgrades, evolving densities and retrofit needs



The Insight Layer

Translating data into actionable guidance

Your thermal management system generates a constant stream of data. But data alone doesn't tell you what to do next. Teams still need to identify what matters, prioritize actions and keep systems aligned as conditions change.

Trane connects system data with advanced analytics to create an insight layer that helps you understand what's happening and what to do next. Real-time visibility, predictive diagnostics and expert support help identify efficiency drift, surface emerging service needs and improve performance over time.

- Make better decisions with clear, prioritized insights
- Identify issues earlier and act before they escalate
- Maintain system alignment with continuous monitoring and expert guidance
- Improve efficiency and consistency over time
- Support long-term optimization, not just Day 1 commissioning

Fueling Your Performance Through Collaboration

We collaborate with you from concept to completion and leverage key ecosystem relationships to deliver on your requirements. From new innovations to meet your design, performance improvements and retrofits at every stage, our trusted specialists help you move faster and scale smarter.

Our Approach

1

Collaborative Solutioning

This is where clarity begins. No matter your data center type or scale, we collaborate with your team to define goals, analyze needs and set parameters for a more efficient thermal management strategy — aligned not only to design load, but to operating realities, growth plans and business objectives.

2

Simulation, Analysis and Modeling

We test your unique system specifications before going live with advanced digital modeling, giving your team data-backed insight into how each choice impacts energy use, capacity, flexibility and ultimately ROI.

3

Performance Validation

Before your system goes live, we invite you to witness it in action. From flow rates to heat transfer and control responsiveness, we test it all — confirming your system meets the exact specs and performance standards that matter most to you.

4

Commissioning

Trane works with your team to ensure your facility meets requirements from the start, reducing risks in support of on-time, on-budget completion. Our seven step, flawless commissioning process includes early planning and strict verification across every step to deliver optimal performance for your high-stakes environment and support strong Day 1 performance.

5

Operational Optimization

Commissioning is the baseline, not the finish line. As your data center grows, Trane supports you with advanced systems, local service teams, remote monitoring and predictive servicing to help maintain performance, plan upgrades and adapt without unnecessary disruption.



Build Faster With Proven Designs

Trane's Continuum Reference Designs provide a proven starting point for modern data centers, with the flexibility to adapt to site, capacity and performance needs. Built by specialists, each design integrates cooling, energy use, controls and reliability to help teams move faster from planning to compute-ready capacity.

Designed to accelerate execution while preserving future flexibility, they balance repeatability with the adaptability needed as thermal assumptions change.

Teams use these designs to:

- Decrease risk and accelerate deployment
- Reduce rework with proven configurations
- Compare validated options early
- Define cooling strategies for high-density workloads
- Align around clear performance targets
- Enable repeatable system design with flexibility built in from the start
- Support speed to operation, not just speed to delivery
- Prepare for future upgrades and changing density requirements

The impact is measurable. In one recent application, a 1 GW AI factory design freed up 22 MW of power for compute.

Enhance Your Operations With Tailored Solutions

Our thermal management solutions are built for a new era of data center complexity, where standard designs alone can't meet every operational demand. As rack densities rise, AI workloads accelerate and site requirements become more specialized, operators need cooling strategies that combine proven platforms with more tailored system design.

Powered by expertise, Trane solutions are purposefully engineered to support mixed densities, improve energy performance, adapt to site-specific constraints and scale quickly as your needs evolve — while preserving serviceability, upgrade paths and long-term operational value.

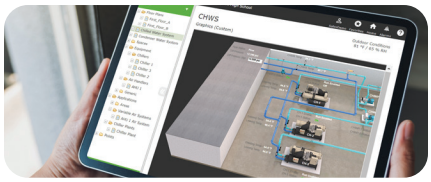
CONTROLS



Integrated System Management

Configurable controls efficiently manage multiple units, improving performance, increasing energy efficiency and reducing equipment strain to help optimize thermal management system performance over time.

CHILLER PLANT MANAGER



Intelligent Optimization, Built-In Resilience

Orchestrates load balancing and equipment sequencing in real time, maximizing system performance with resilient architecture that supports continuous, reliable operation.

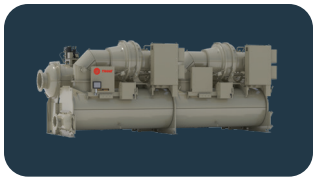
DIGITAL SOLUTIONS



Connected Intelligence Across Your System

From AI-driven controls to cloud-based visibility and expert analytics, our digital solutions turn data into coordinated action — optimizing performance, anticipating issues and continuously improving operations across the lifecycle.

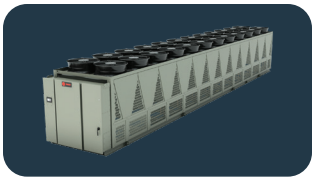
WATER-COOLED CENTRIFUGAL CHILLERS



Efficient Cooling at Scale

Designed for high-capacity cooling, these chillers tackle tough applications, reduce operational costs and minimize environmental impact, making them a smart, sustainable choice.

AIR-COOLED CHILLERS



Scalable Cooling, Ready When You Are

Built for rapid deployment and expansion, these chillers deliver consistent, high-performance cooling across a wide range of conditions — helping support modern GPU and AI workloads while maintaining reliability and control.

LIQUID COOLING SOLUTIONS



Precision Cooling for High-Density Compute

Engineered for next-generation workloads, our liquid cooling solutions deliver targeted, high-efficiency heat removal at the chip level — integrated into your broader thermal system to support extreme densities without compromising reliability.

AIR HANDLING SOLUTIONS



Reliable Airflow, Smarter Space Usage

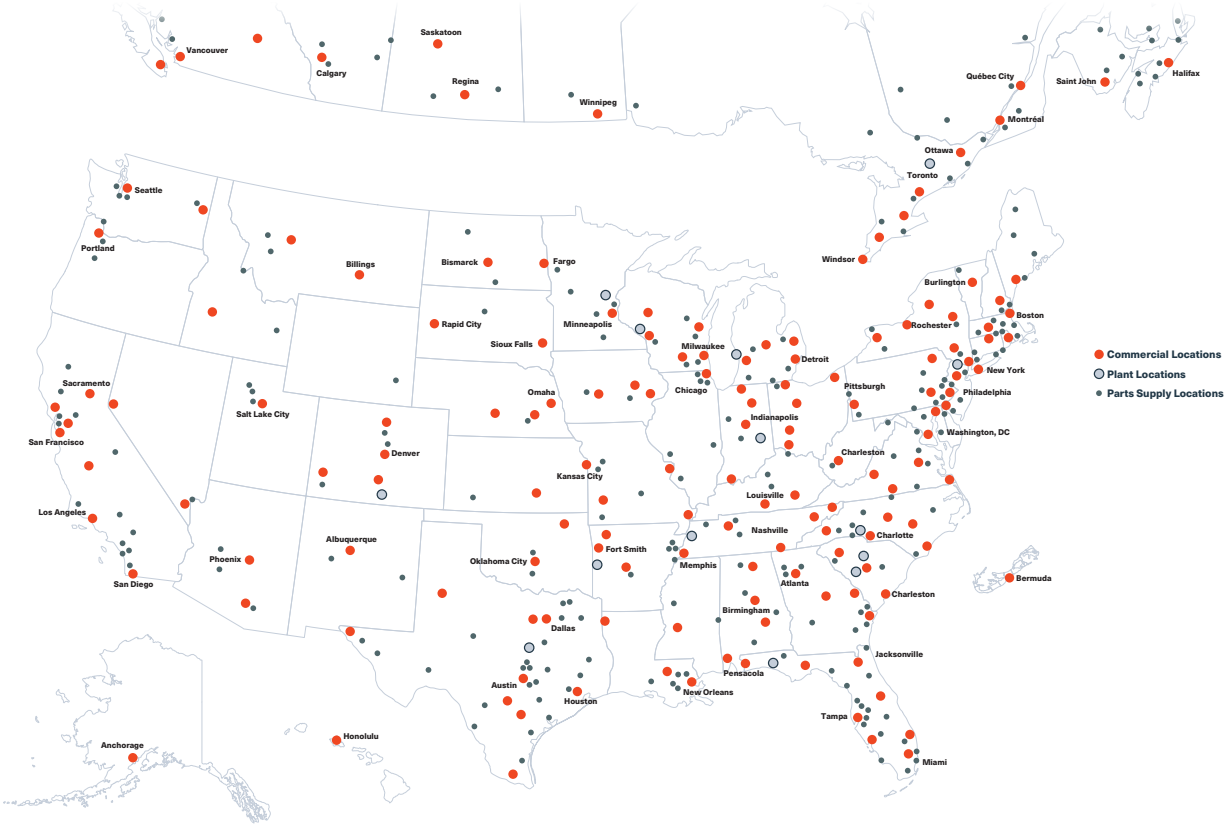
Designed for the demands of computing, our air handlers offer exceptional airflow and precise temperature control, enhancing your space and easing system load for optimal performance.

DATA CENTER SERVICES THAT SCALE WITH YOU

Expert Services to Help Your Equipment and Controls Perform at the Highest Level

Our tailored data center services are built to meet requirements from the start, maintain uptime and multiply performance. These services help ensure seamless integration during start-up and commissioning, smoother transitions during growth and a service plan built for long-term critical performance.

In high-density environments, service can't be treated as a support function alone. It needs to be part of the asset strategy — helping operators maintain reliability, plan modernization, improve visibility into risk and prepare for change before infrastructure is under strain.



COMMISSIONING, MAINTENANCE AND OPTIMIZATION SERVICES

Ensuring Performance

End-to-End Data Center Services

- Commissioning aligns requirements from the start
- Timelines stay on track with fewer start-up surprises
- Lifecycle support scales with your needs
- Performance keeps pace with growth
- Service planning supports modernization and retrofit readiness

Responsive, Skilled Technicians When and Where Needed

- Largest service footprint in the industry with 6,000+ technicians
- Specialized data center training at Advanced Technology Training Center
- Fast, dependable, local service and support
- Expertise to support evolving operating conditions

Proactive Monitoring With Rapid Response

- Designed for critical environments where uptime is essential
- Remote diagnostics to assess issues quickly
- Predictive maintenance to prevent disruption
- Faster issue resolution for smooth operations
- Better visibility into emerging risks and efficiency drift

Parts When and Where You Need Them

- Quick access to components
- Tailored to local needs
- Faster service

You're Building For Tomorrow. So Are We.

As the demand for data processing and storage grows, so does the need for sustainable practices and infrastructure that can evolve over time. Trane helps data centers meet that challenge by delivering solutions that maintain and improve operational efficiency while supporting sustainability goals and community relations.

We translate sustainability and operational priorities into actionable strategies to lower carbon emissions, conserve resources and reallocate energy. That includes everything from noise reduction to scalable system design, connected optimization and lifecycle planning that helps customers balance CapEx, OpEx and long-term asset value.

With the right people, insights, services, systems and support, you can move forward with confidence — improving efficiency, supporting regulatory compliance, controlling costs and staying ready for changing cooling, power and controls demands as your data center evolves.

Let's Multiply Your Performance, Together.

With Trane, you don't just get cooling equipment. You get a thermal management partner with the expertise, insights, services and system-level support to help your data center operate efficiently, adapt with confidence and stay ready for evolving regulatory and cost pressures.

Visit Trane Data Center Solutions to learn more.



[1] *GPU As A Service Market (2025 - 2030),* Grand View Research
[2] *Operators struggle to overcome ongoing staff and skills shortage,* Uptime Institute Intelligence
[3] *Exploring Immersion Cooling – Part 2: The Challenges,* Upsite Technologies
[4] *8 Trends That Will Shape the Data Center Industry In 2025,* Data Center Frontier
[5] *AI data center growth could force US utilities to rethink generation plans,* Utility Dive
[6] *Addressing Data Center Growth Constraints Key to U.S. Innovation, Leadership in AI,* POWER/Access Intelligence

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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