



Model VCDC

Trane Computer Room Air Handler

Unparalleled cooling efficiency for modern data centers.

Trane's Computer Room Air Handler (CRAH) delivers outstanding cooling efficiency, reliability, and scalability for data centers, helping to support improved performance, sustainability, and reduced operational costs. Engineered to address the demands of high-density computing environments, Trane's CRAH features advanced energy-efficient technology, robust construction, and intelligent controls. Flexible airflow configurations—including both upflow and downflow orientations—support compatibility with raised-floor, slab, and overhead cooling designs. Multiple discharge options make it simple to tailor airflow to the unique needs of each space, ensuring maximum cooling effectiveness and efficient use of valuable white space. An enhanced thermal enclosure is designed to help reduce energy loss and improve cooling efficiency, making Trane's CRAH an excellent choice for modern data center operations.



Superior Performance and Reliability

Trane CRAHs excel in regulating the temperature within data centers by efficiently removing heat generated by servers and other equipment. Climate control is crucial to prevent overheating, which can lead to equipment failure and data loss.



Energy Efficiency and Sustainability

Benefit from reduced power consumption with ECM fans and improved cooling using advanced sensors. This unit helps promote energy efficiency, lower operational costs and sustainable operations.



Scalability and Flexibility

Scalable solutions with a modular design and customizable options to meet specific needs. With a broad capacity range of 50-300kW, this unit offers flexibility and adaptability for growing data centers.

Symbio® Equipment Controls

Symbio® factory installed and tested equipment controllers provide advanced control and monitoring for the Trane CRAH. The controller is engineered with fail safe sequences to ensure continuous system operation in the event of communication loss or unit failure and offers the ability for customization to meet unique specifications. Symbio seamlessly integrates with building automation systems through open standard protocols.

Symbio facilitates team control functionality with a dedicated inter-unit communication bus, aggregating and sharing select unit data across the system to coordinate the operation of multiple units and improve efficiency in the data hall. It operates through leader commands, independent of any building automation system. For enhanced resiliency, team control can accommodate up to 32 units and allows for flexible leader designation and dynamic reassignment in the event of a failure. The system is configured through an embedded user interface and allows for local adjustments through unit-mounted TD7 display. The controller unlocks a suite of digital solutions and services for continuous lifecycle management.



Support That Scales as You Do

As your data center evolves, so do the challenges: more capacity, tighter timelines and zero tolerance for downtime. Trane's thermal management services for data centers are built to move with you—delivering responsive, scalable support across the full lifecycle, so performance keeps pace with growth.

That means more than just fast fixes. It means embedded expertise, proactive planning and connected insights that adapt to your changing infrastructure. Whether you're expanding capacity, optimizing existing systems or preparing for what's next, Trane stays aligned with your priorities—from design through expansion and refresh.

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.



Discover the ultimate in data center cooling with Trane CRAH units.

Contact us today to learn more and improve your data center's performance.



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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.