

CenTraVac® Water-Cooled Data Center Chillers



Over 20MW of Scalable, Reliable Cooling in a Single Package



Trane's CenTraVac Data Center Chillers offer a wide range of cooling solutions, with capacities over 20MW for the industry's highest-density projects. Built for hyperscale and colocation data centers, they help minimize installed footprint, reduce complexity, support uptime, and lower energy and carbon impact.

Features & Benefits

High Capacity, Fewer Units

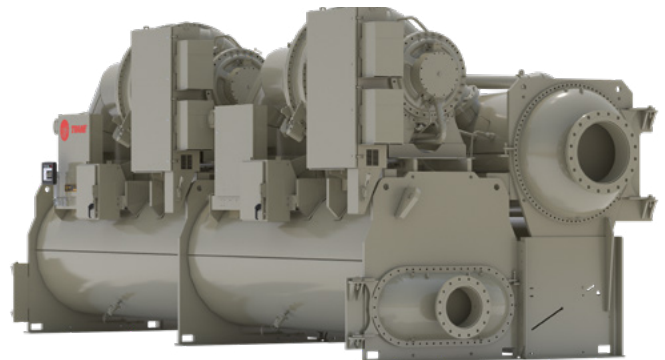
Over 20MW of cooling in a single flatbed-truck-shippable package helps reduce unit count, simplify site installations and streamline modular chiller plant design to support hyperscale and multi-phase data center growth.

Fast Recovery, Lower Risk

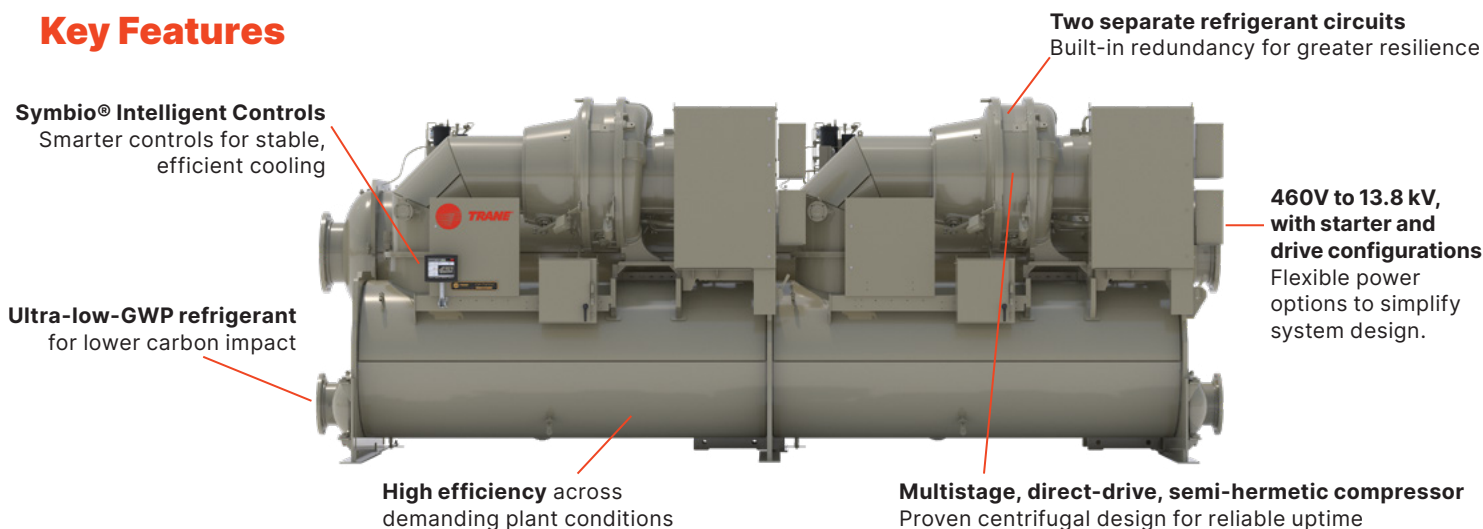
Rapid Restart in as little as 43 seconds and proven centrifugal design with a wide operating map helps protect uptime and maintain stable cooling through power events and changing load conditions.

Lower Energy, Water and Carbon Impact

High efficiency chillers utilized in Dry Cooler designs help reduce energy usage while eliminating water evaporation concerns from open loops, optimizing both PUE and WUE. Trane's ultra-low-GWP refrigerant and low leak rates also lower carbon impact and support ESG goals. An Environmental Product Declaration (EPD) is also published for Trane's CenTraVac chiller.



Key Features



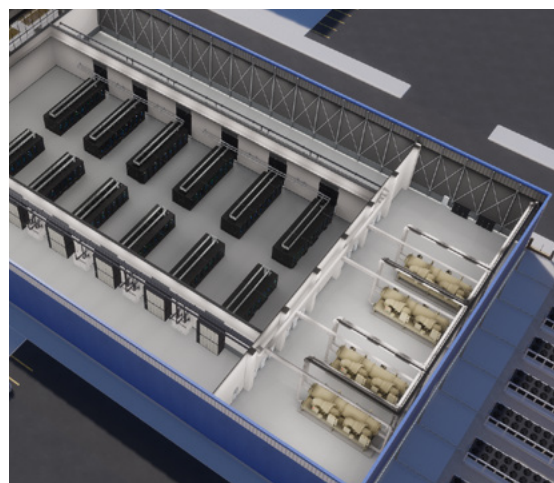
Capacity range	Simplex Chiller (Single Circuit) Model CVHH 850 – 2800 tons Duplex Chiller (Dual Circuit) Model CDHH 2000 – 6000+ tons
Operating Map	Design Load temperatures compatible with high-density GPU chips Designed to Operate with Dry Coolers with elevated condensing temperatures
Compressor	Multistage, direct-drive, semi-hermetic centrifugal compressor
Refrigerant	Ultra-low-GWP R-1233zd refrigerant
Electrical Power	460V to 13.8kV solutions available Various Unit and Remote Mounted Starter and Drive options

Trane's Data Center Reference Designs for CenTraVac CDHH & CVHH

Accelerate your next data center project with Trane's engineer-ready reference designs—proven blueprints built around our CenTraVac CDHH and CVHH chillers. Each design delivers clear system layouts, detailed temperature and flow guidance, and expert strategies for integrating air- and liquid-cooling. Whether improving redundancy, enabling higher condenser temperatures, increasing free cooling, or leveraging optional heat recovery, these guides help streamline design, help enhance energy and water efficiency, and support more sustainable, high-performance AI-ready data center infrastructure.



Scan here for more.



➔ **Trust Trane.** Contact us today to learn more about our tailored solutions for Data Centers.

www.Trane.com/DataCenters



All trademarks referenced in this document are the trademarks of their respective owners.

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.

© 2026 Trane. All Rights Reserved | CTV-SLB056-EN | 09/25/2026