

# Maximal cooling. Minimal footprint.



Introducing the Trane® Coolant Distribution Unit.  
The most cooling capacity of any unit of its size.

With AI and 5G on the rise, your cooling needs have never been greater, but your white space is tight. How can you get the cooling you need from a direct-to-chip liquid coolant distribution unit while using the least amount of space?

## Meet the Trane CDU

Engineered to meet the rigorous cooling demands of hyperscale and colocation data centers, Trane's 1 MW coolant distribution unit delivers up to 1,350 kW cooling capacity in a compact 900 mm footprint. Designed in collaboration with the world's largest GPU manufacturer, this high-performance solution ensures reliable thermal management for even the most heat-intensive AI factory environments while optimizing floor space.

The Trane CDU's design eliminates the need for side access, allowing units to be installed closely side by side. This helps optimize your white space without compromising functionality and offers greater flexibility for expanding operations.

Whether you're managing existing infrastructure or transitioning to liquid cooling technology to enable future high-density demand, the Trane CDU's space-saving design provides flexibility and efficiency to adapt to your evolving needs.



## Built for performance and reliability

In addition to its space-saving benefits, the Trane CDU is packed with design features that promote energy efficiency and help ensure continuous high performance.

- ✓ **Designed in collaboration** with the world's largest GPU manufacturer
- ✓ **Integrated ATS with supercapacitor** — In the event of power loss, switchover to backup power is seamless and immediate.
- ✓ **25-micron filtration** — Compared to larger-size filters, 25-micron filtration better protects components from wear and clogging and extends equipment life.
- ✓ **>2.75 bar head pressure** — Enables longer runs between the CDU and racks.
- ✓ **Dual VSD pumps** — Respond dynamically to changes in cooling demand, resulting in higher energy efficiency and lower costs.
- ✓ **316 stainless steel plate heat exchanger** — Compatible with a variety of coolant fluids, high-grade stainless steel resists corrosion to ensure efficient heat transfer and high performance.
- ✓ **2-way PICV valve option** — For smoother coolant control compared to a 3-way valve.

## Easy to install and service

Maintaining and servicing the Trane CDU is hassle free, thanks to its thoughtful design. Unlike other systems that require technicians to navigate tight spaces between racks, the Trane CDU is easily accessible from both the front and back panels. This streamlined access saves time and reduces effort, ensuring maintenance is both efficient and straightforward.

Plus, the unit's impressive >2.75 bar head pressure offers even greater installation options. This high head pressure allows the CDU to pump fluid over longer distances, making it an ideal solution for large-scale or complex AI-enabling data center designs. Whether your facility has sprawling infrastructure or requires precise cooling delivery across a wider range, the Trane CDU is designed to meet the challenge with efficiency and reliability.



## Designed with efficiency in mind

The Trane CDU helps support sustainability goals, incorporating features like dual variable speed drive (VSD) pumps that adapt to changing cooling demands. These pumps operate at lower speeds during periods of reduced demand, consuming less energy than traditional fixed-speed pumps. This energy-efficient approach is particularly valuable for data centers focused on reducing their environmental impact while maintaining reliable performance.

Also, the Trane CDU enables data centers to reuse coolant that has been heated by the server racks, either in a closed loop or repurposing it for other building needs. This supports sustainability through efficient heat recovery and responsible water use.



## Backed by the strength of a global leader

Choosing a Trane CDU isn't just about high-performance liquid cooling — it's about aligning with a global leader you can rely on. Trane's portfolio of solutions includes industry-leading air- and water-cooled chillers, chiller plant controls, fan coil walls and heat recovery systems, supported by a world-class service network. Plus, as an industry leader, Trane brings purchasing power and stability to deliver high-quality, dependable solutions tailored to your needs.

From installation to maintenance, Trane is your thermal management partner for developing, designing and operating in mission critical environments.

Learn more about the [Trane CDU here](#), or contact your Trane Account Manager today.



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](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

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