

DCX Liquid Cooling Systems Announces New 8MW Coolant Distribution Unit, Optimized for 45°C Warm-Water Cooling

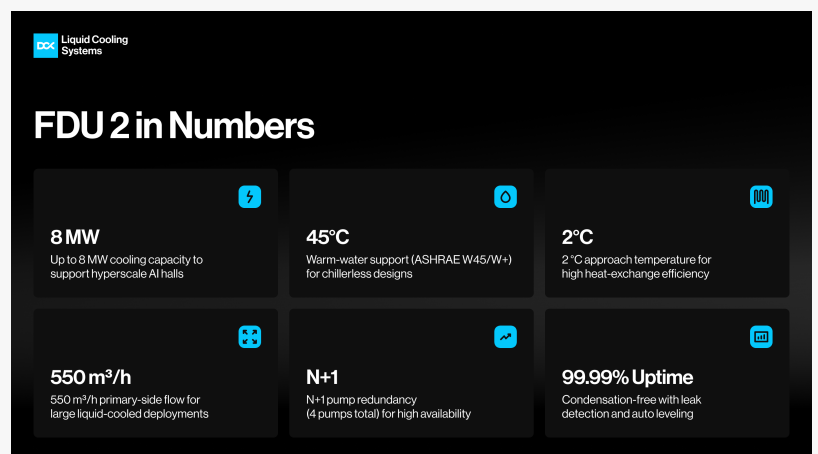
Optimized for 45°C Warm-Water Cooling in Next-Gen NVIDIA Vera Rubin, the new 8MW Coolant Distribution Unit is ready for future AI deployments.

WARSAW, MAZOWIECKIE, POLAND, January 25, 2026 /EINPresswire.com/ -- After successful introduction of 5MW FDU Coolant Distribution Unit, DCX beats its own record of the most powerful CDU system ever made. Liquid cooling Manufacturer leads category of hyperscale CDU's, launching today a new CDU system with a stunning 8MW capacity, designed specifically for Nvidia Vera Rubin 45°C warm water cooling

[DCX Liquid Cooling Systems](#) is proud to announce the second generation Facility Distribution Unit (FDU V2AT2). Designed to support the infrastructure shift driven by AI deployments at scale, new CDU supports 45°C warm-water cooling for NVIDIA's NVL72 GB200 / GB300 Blackwell and Vera Rubin architectures.

FDU V2AT2 delivers up to 8.15MW of heat transfer capacity while providing record breaking flowrate, enabling 45°C warm-water operation -

temperature level that can eliminate the need for chillers on the heat-rejection side in many deployments. This new cooling system has also built in most capable heat exchanger in the



industry, which further enables heat reuse and chiller-less heat transfer. "As the datacenter industry transitions to AI factories, operators need cooling system that won't be obsolete in one platform cycle," said Maciek Szadkowski, CTO at DCX. "The FDU V2AT2 replaces multiple legacy 1.3 MW CDU's and enables 45°C supply water operation. This new category of CDUs, has minimum thermal loss with AT2 approach temperature, and provides multi-megawatt cooling at the hall level. That opens a clear path to NVIDIA Vera Rubin architecture and beyond while simplifying cooling loop topology and significantly reducing both CAPEX and OPEX of datacenter liquid cooling system"

Purpose-Built for 45°C Warm Water and Chillerless Heat Rejection

NVIDIA has highlighted 45°C water supply as a key design point for Vera Rubin rack-scale systems—explicitly enabling data centers to operate without traditional water chillers in the cooling plant for these workloads. The DCX FDU V2AT2 is engineered to take full advantage of that shift by supporting ASHRAE W45 / W+ warm-water classes and maintaining tight control to avoid condensation, helping operators move from refrigeration-centric cooling to a simpler, more scalable warm-water approach.

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*Maciek Szadkowski, CTO DCX
Liquid Cooling Systems*

supporting hyperscale AI growth.

- Record breaking 550 m³/h flow rate required by 45°C warm-water cooling supporting



DCX FDU 2



chillerless heat rejection strategies

- Most capable heat exchanger in CDU with 2°C approach temperature for heat reuse and low cost heat rejection
- 4 pumps in N+1 redundant configuration for high availability
- Built in comprehensive water quality control in line sensors and water treatment system.

Why It Matters for Vera Rubin-Aligned Operators

The move to rack-scale AI systems is redefining the boundary between IT and facility infrastructure. NVIDIA's Rubin platform positions the rack as a coherent machine—driving operators toward higher-density, liquid-first designs and warm-water cooling strategies. By enabling 45°C facility-water operation, and providing AT2 heat exchanger the FDU V2AT2 helps operators:

- Reduce mechanical complexity by avoiding chiller dependence for the liquid loop in many climates
- Improve energy efficiency by raising water temperatures and minimizing compressor-based refrigeration where feasible
- Accelerate deployment with a scalable, facility-level CDU architecture designed for rapid expansion
- Strengthen long-term readiness for Rubin-class racks and the next wave of high-density AI infrastructure

Availability

The DCX FDU V2AT2 is available for hyperscale and high-density AI data center projects effective immediately. Reference architectures, integration guidance, and project sizing support are available upon request.

About DCX Liquid Cooling Systems

DCX Liquid Cooling Systems is a premier global manufacturer offering an extensive range of sustainable liquid cooling solutions, including both Direct Liquid Cooling and Immersion Cooling technologies. The company designs & manufactures Server Immersion Enclosures, Coolant Distribution Units (CDUs) including Hyperscale FDU (facility sized CDU) system, CPU and GPU coldplates, manifolds and other components of liquid cooling system. DCX delivers Hydro & Immersion Containers and facility-based systems. DCX supplies Immersion Optimised Dry Coolers and a ThermaSafe Dielectric Engineered Fluids. Hardware solutions are complemented with liquid cooled data hall design and implementation services, making DCX the first choice for liquid cooling systems' supplier.

Jacek Dolny

DCX Liquid Cooling Systems

jacek.dolny@dcx.eu

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