

DeepCoolAI Introduces ORV3 In-Rack 200kw CDU For Next-Generation Data Centers

"200kW ORV3 CDU built for high-density AI and seamless OCP integration."



Fremont, California Apr 24, 2025 ([Issuewire.com](https://www.issuewire.com)) - DeepCoolAI, a leading innovator in liquid cooling solutions for AI and high-performance computing (HPC) data centers, is proud to introduce the **ORV3 In-Rack Coolant Distribution Unit (CDU)**. Designed specifically for **OCP ORV3 version racks**, this **200kW liquid-liquid CDU** delivers **high-efficiency cooling** for the most demanding workloads.

A New Standard in Liquid Cooling Efficiency

The DeepCoolAI **ORV3 In-Rack CDU** is engineered for **seamless integration** into next-generation **liquid-cooled AI data centers**. With a **dual-pump redundancy design**, real-time monitoring, and intelligent flow control, it provides **unmatched reliability and performance** for AI training clusters, cloud computing, and HPC environments.

Key Features:

- **Optimized for OCP ORV3 Racks** – Designed to meet the latest Open Compute Project (OCP) standards with 48VDC power supply.
- **200kW Cooling Capacity** – Supports the growing thermal demands of AI and HPC infrastructure.
- **Advanced Monitoring & Control** – Supports **Modbus RTU, Modbus TCP/IP, and SNMP** communication protocols for real-time telemetry and remote management.
- **Redundant Pump Drive Module** – Ensures **continuous operation** with one active and one standby pump.
- **High-Efficiency Heat Exchange** – Maintains optimal cooling efficiency while reducing power consumption.
- **Smart Differential Pressure & Flow Control** – Adjusts system flow dynamically based on server load, ensuring precise cooling efficiency.
- **Compact In-Rack Design** – Space-saving form factor for maximum density and scalability.

Scalability & Reliability for AI and HPC Environments

With AI workloads demanding **higher power densities**, traditional air-cooling solutions are no longer sufficient. The **ORV3 CDU** is built to **enable high-density, energy-efficient data centers** by efficiently managing the thermal loads of cutting-edge GPUs and CPUs.

DeepCoolAI's **liquid cooling expertise** extends beyond CDUs to include **customized cooling infrastructure**, manifolds, and **high-performance RDHx solutions**, ensuring a complete end-to-end cooling ecosystem.

Availability

The DeepCoolAI **ORV3 In-Rack 200kW CDU** is available for **immediate integration** with **global supply chain support**. For more information, visit www.deepcoolai.com or contact sales@deepcoolai.com.

“**Kris Holla, Founder and CEO of DeepCoolAI**, commented on the launch: ‘The ORV3 In-Rack 200kW CDU represents a major leap forward in meeting the cooling demands of next-generation AI and HPC data centers. At DeepCoolAI, our mission is to empower the world's most advanced computing environments with reliable, scalable, and energy-efficient liquid cooling technologies. With the ORV3 CDU, we are proud to deliver a solution that combines cutting-edge engineering with seamless integration for OCP ORV3 environments, helping our customers unlock new levels of performance and sustainability.’”

About DeepCoolAI

DeepCoolAI is a One Stop Factory Direct Liquid Cooling For Next Gen AI Data Center.

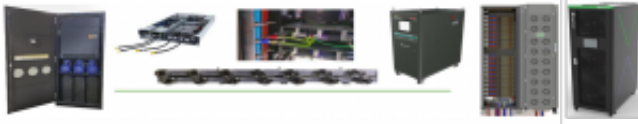
DeepCoolAI, offers a comprehensive range of solutions for liquid cooling, including CDUs, Load Banks, Refill Carts, and supporting products such as RDHx and Fanwalls. We specialize in **custom-tailored CDUs**, providing bespoke solutions for data centers ranging from 1 megawatt to 6 megawatts. Our **plug-and-play Load Banks** are designed to streamline the commissioning and startup of AI liquid-cooled data centers. Additionally, our **state-of-the-art Refill Carts** ensure that your liquid-cooled servers and CDUs remain operational, helping you maximize uptime. Recently Samina and DeepCoolAI entered into strategic partnership for global manufacturing and supply chain at scale.

Visit www.deepcoolai.com for more information and sales@deepcoolai.com

Media Contact: media@deepcoolai.com

#LiquidCooling #DataCenters#HPC#AllInfrastructure#NextGenCooling#200kWCDU

#CDUSolutions#DeepCoolAI#ORV3



Media Contact

DeepCoolAI

*****@deepcoolai.com

42735 Christy Street, Fremont, CA, 94538

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