Coolant Distribution Unit(CDU)

L2L Direct to Chip **DLC** Advanced Liquid Cooling

High-Performance CDU for Scalable, AI-Ready Cooling

Neurair's signature In-Row CDU delivers **powerful** and **efficient** cooling, built for **tech titans** running **AI** to **ultra-high-density** workloads. Already **mass-produced** and **actively deployed** worldwide, it's a **future-proof, AI-ready** solution designed for next-gen rack expansion and long-term infrastructure growth. Whether placed **beside the rack** or in a **separate data hall section.**

Backed by **redundant pumps, LCD control, and closed-loop operation,** it ensures **resilient, production-grade** performance that scales with demand.

Key Features

Scalable & Flexible - Deploy in-row or externally to support any rack layout or density.

Redundant & Reliable - Triple-redundant pumps ensure cooling without interruption.

Smart Monitoring - Built-in LCD panel with live sensors and leak detection.

Sustainable Design - Closed-loop system — no water loss, no contamination risk.

Production-Proven - Mass-deployed by tech leaders — not a concept, but a global standard.

TC2500 - High-Capacity Liquid-to-Liquid CDU

Cooling capacity: up to 2.5MW
Flow rate: up to 2000 LPM
Low noise: under 61 dBA
Advanced redundant pumping system
Stainless steel enclosure and touch panel interface
Supports Modbus, TCP/IP, BACnet for seamless integration
Designed for high-performance data centers

🧊 Built for Mission-Critical Cooling Environments

NEURAIR's TC2500 in-row CDU delivers high-efficiency liquid cooling designed for today’s most demanding compute loads. Engineered for seamless integration into AI, HPC, and hyperscale data center infrastructures, it ensures optimal temperature control, energy savings, and long-term reliability.

- Compact in-row form factor minimizes footprint while maximizing thermal performance
- Precision liquid-to-liquid exchange allows tight temperature regulation across varied heat loads
- Designed for 24/7 operation in high-density environments, ensuring consistent uptime
- Flexible connectivity options support integration with modern building automation and DCIM platforms

Whether you're scaling an AI training cluster or stabilizing heat-sensitive compute arrays, the TC2500 helps maintain performance and availability without compromise.

High-Capacity Liquid Cooling CDU
Cooling power with precise temperature and flow control — ideal for AI, HPC, and dense compute environments.

Redundant, Reliable Operation
Equipped with triple redundant inverter pumps to ensure continuous, fail-safe cooling with zero downtime.

Modular & Scalable Integration
Fits seamlessly between racks — enabling scalable cooling expansion as demand grows.

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