

Cold Plate Liquid Cooling Equipment

LLM Edge Node Integrated Cabinet



Overview

With optional Fourier water-free cold plates to form a fully water-free system, and compatible with standard cold plates, this solution supports edge-integrated cabinets at ≥ 20 kW per rack while ensuring high reliability and energy efficiency.

Features

Adapted to Harsh Environments

- Supports ambient temperatures up to 65 °C, with liquid cooling systems adaptable to operate in 25/45 °C, 38/45 °C, and 40/50 °C.

Ultimate Performance

- Edge sites support single racks above 20 kW for high-density AI infrastructure. Uses a water-free chiller system, eliminating the need for complex water supply.
- Cold-plate solution available in 1–8 rack configurations, with optional dedicated water-free cold-plate system, front- and rear-enclosed IT racks, UPS, lithium or lead-acid batteries, PDUs, and rack-mounted air conditioners.

Energy Efficiency

- When ambient temperature is below 24 °C, the liquid cooling system operates entirely on free cooling, reducing power distribution demand while achieving a PUE below 1.25—energy efficiency comparable to medium and large-scale data centers.

Safe and Reliable

- Configured with N+1 fans and N+1 electronic pumps, designed as hot-swappable FRUs for rapid on-site replacement.