

Cold Plate Liquid Cooling Equipment

Air-Liquid Integrated Rack



Overview

Factory-prefabricated and ready for rapid deployment, integrating power supply, liquid cooling, and IT equipment into a unified intelligent cabinet.

Built-in condensation prevention, leak detection, automatic coolant refill, and flow protection, with enhanced fault tolerance and high stability.

Pump system with 2N redundant variable-frequency design, automatic switchover in case of failure. When both pumps run simultaneously, cooling capacity increases by ~10%.

Features

- Modular and lightweight design, with rack power density up to 10–20 kW/rack. Suitable for laboratories, retrofitted data centers, and edge computing scenarios.
- Fully prefabricated—no on-site piping or cooling installation required.
- Low-noise dual-fan design ensures liquid cooling system continuity in case of single-fan failure.
- Pressurized sealed system reduces leakage risk and enhances operational safety.
- High-efficiency copper microchannel heat exchangers provide superior thermal performance and reliability when paired with cold plates.
- Intelligent system diagnostics adjusts coolant flow, circulation, and fan speed in real time for balanced load distribution.