LEAK-PROOF & CUSTOMIZABLE COOLING SYSTEM

Chilldyne delivers dependable leak-proof direct-to-chip liquid cooling solutions for HPC, AI, Data Centers, Finance, Colocation Service Providers, Hyperscalers, Government, and Academia. Our patented, fail-safe systems use advanced negative pressure technology and smart redundancy to prevent leaks and maximize uptime. Easy to install and maintain, Chilldyne's solutions ensure unmatched cooling performance for a sustainable approach to managing your server environment.
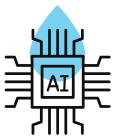
LEAK-PROOF COOLING
Negative pressure system

DIRECT-TO-CHIP
Peak thermal performance

FAIL-SAFE DESIGN
Smart redundancy

EASY TO INSTALL
Easy to maintain

MADE IN USA
Premium quality

ECO-FRIENDLY
Sustainable solutions

ENERGY EFFICIENT
Up to 40% savings

ZERO-DOWNTIME UPGRADES
Maximize uptime

CASE STUDY:
SANDIA NATIONAL LABS

Sandia National Labs deployed two supercomputers equipped with Chilldyne's negative pressure liquid cooling system.

- Initially ranked #69 and #94 on Top500 list
- 1488 Skylake nodes each
- PUE: 1.016 with thermosyphon facility cooling

This system uses N+1 CDUs and automatic failover valves to maximize uptime. The cold plates feature fins for backup air cooling.

Source:
https://www.osti.gov/servlets/purl/1763558

HOW IT WORKS:
SYSTEM ANATOMY

Chilldyne's innovative negative pressure technology creates a vacuum to circulate water by pulling it through the cooling system. This approach removes the need for costly, heavy-duty plumbing to the racks, ensures easy setup and upkeep, and eliminates leaks in a system with no single point of failure.

1) Cooling Distribution Unit (CDU)
The CF-CDU300 cools up to 300kW of servers.
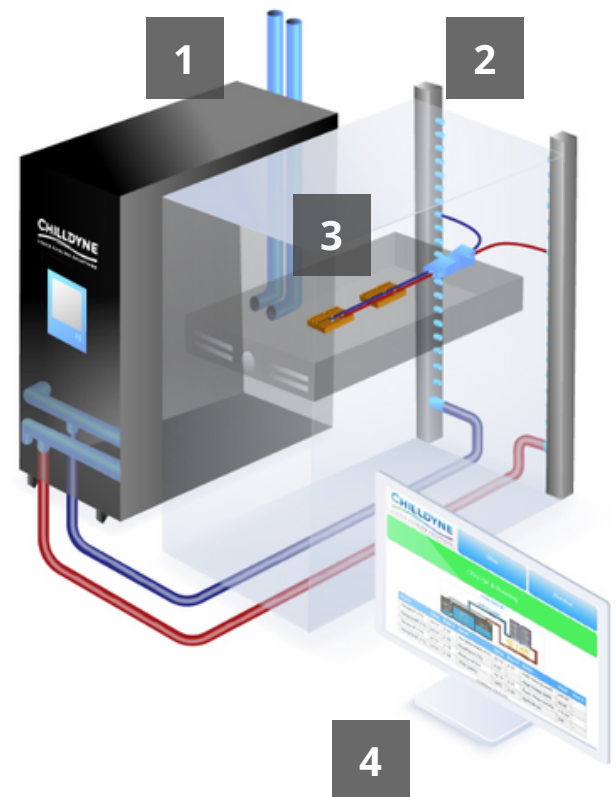
2) Rack Manifold
Delivers coolant to more than 100 servers while installed inside a standard server rack.

3) Cold Plates
Mounted directly to server processors, to remove heat at its source.

4) Cool-Flo Software
Remotely monitor and operate the Chilldyne CDU using a web-based interface, industry-standard protocol, or integration with DCIM and BMS software.

SCAN FOR MORE INFO

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