

Two-Phase Liquid Cooling

Unleashing the Full Potential of AI Computing

SynthCool Landau™ Series

Covering both Two-Phase Cold Plate Cooling
Two-Phase Immersion Cooling



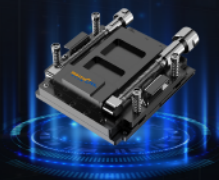
2PCP

- Exceptional Cooling Performance
- Vapor Quality Sensing & Flow Balancing
- Low Pressure, High Efficiency & Low Cost
- Electrically Insulated, Leak-Safe Design

2PIC

- Exceptional Cooling Performance
- Reliable Control & Flexible Deployment
- Energy-Efficient, Sustainable Design
- Safe & Reliable Operation

Intelligent Two-Phase
Cold Plates



In-Rack RDU



In-Row
Sidecar RDU



2PCP

2PIC

Two-Phase
Computing Rack



2PCP

2PIC

Two-Phase
Compute Tray



2PCP

2PIC

Cooling Capacity per Chip

3000W+

High Heat Flux

250W/cm²

Rack Power Density

200kW+

Low pPUE

1.05

Application Scenarios



AI Computing
Centers



LLM Training &
Inference Centers



Cloud Computing &
Internet Data Centers



Telecom &
Edge Computing



Financial
Government
Energy Data Centers



Research Institutes &
University Laboratories

Why SynthCool?



Complete Liquid Cooling Product Portfolio

A comprehensive portfolio covering single-phase liquid cooling, two-phase liquid cooling, and closed-loop adaptive Coolant Distribution Units (CDUs), supporting multi-level deployment to meet the full range of liquid cooling requirements across diverse computing center scenarios.



Proprietary Core Technologies

Proprietary expertise in cold plate design, two-phase heat transfer, fluid control, and intelligent regulation, forming a full-stack liquid cooling technology portfolio spanning end cooling, system control, and integrated thermal management.



System-Level Control Capabilities

A full-loop sensing and closed-loop control architecture covering flow rate, temperature, differential pressure, and operating status, enabling intelligent regulation, efficient coordination, and long-term stable operation of liquid cooling systems.



Validation & Continuous Technology Evolution

Professional test and validation platforms enable rapid customization and reliable delivery, while supporting continuous technology evolution from single-phase to two-phase liquid cooling to protect long-term infrastructure investments.

Contact Us

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Learn more

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