

# Single-Phase Liquid Cooling Empowering AI Computing Deployment

**SynthCool Nusselt™ + Onsager™ Series**

Covering both Single-Phase Cold Plate Cooling and Single-Phase Immersion Cooling



**1PIC**

- Uniform Cooling Coverage
- Reliable Modular Redundancy
- Precise Intelligent Control
- Stable & Efficient Operation

**1PCP**

- Compatible with the GB300 Platform
- Ultra-Thin, High-Density Integration
- Broad Compatibility Across Multiple Chip Platforms
- Rapid, Scalable Deployment

## Single-Phase Cold Plate



## Single-Phase CDU

L2A CDU



L2L CDU



## Single-Phase Immersion Tank



Cooling Capacity per Chip

**3000W+**

High Heat Flux

**180W/cm<sup>2</sup>**

Rack Power Density

**200kW+**

Low pPUE

**1.1**

# 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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