

H200 GPU + NVSwitch Liquid Cooling Assembly

Product Specification



1. PRODUCT OVERVIEW

The ToneCooling H200 GPU + NVSwitch liquid cooling assembly is designed for high-performance AI servers with NVIDIA H200 GPUs and NVSwitch chips. The system delivers efficient and reliable thermal management with pure water cooling, ensuring optimal performance and stability under high heat loads.

2. TECHNICAL SPECIFICATIONS

Application	NVIDIA GPU + NVSwitch
Supported Devices	H200 GPU × 8 + NVSwitch × 4
Total Heat Load	700 W × 8 + 186 W × 4 = 6,344 kW
Cooling Medium	Pure Water
Inlet Water Temperature	45°C
Maximum Component Temperature	< 80°C
Recommended Flow Rate	10 LPM
Maximum Pressure Drop	40 kPa
Maximum Operating Pressure	1 MPa
Overall Dimensions (L × W × H)	409.18 × 331 × 139.61 mm
Material	Copper (Cold Plate) Stainless Steel / Aluminum (Other Metal Parts)
Surface Treatment	Electroless Nickel Plating (Cold Plate) Anodizing / Passivation (Other Metal Parts)
Connection Type	Quick Disconnect Coupling

3. SYSTEM CONFIGURATION

Item	Quantity	Description
GPU Cold Plate (H200)	8	High-performance copper cold plate for H200 GPU
NVSwitch Cold Plate	4	High-performance copper cold plate for NVSwitch
Manifold	2	Inlet / Outlet manifold with integrated flow distribution
Flexible Hose Assembly	12	EPDM hose with braid, high-temperature and corrosion-resistant
Quick Disconnect Coupling	12	Leak-free quick disconnect, color-coded (Red: Outlet, Blue: Inlet)
Mounting Hardware	1 Set	Screws, spacers, brackets and other installation parts

4. THERMAL PERFORMANCE (Typical Test Result)

Parameter	Value
Total Heat Load	6,344 kW
Inlet Water Temperature	45°C
Flow Rate	10 LPM
Maximum Pressure Drop	40 kPa
Outlet Water Temperature (Estimated)	< 55°C
Maximum Component Temperature	< 80°C
Thermal Resistance (System)	< 0.0055 °C/W



High Cooling Capacity

Supports up to 6,344 kW total heat load with stable operation.



Efficient Flow Design

Optimized flow channels ensure low pressure drop and uniform cooling.



Reliable & Durable

High-quality materials and 100% leak testing ensure long-term reliability.

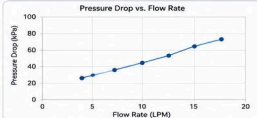


Easy Integration

Compact design and quick disconnect couplings for easy installation and maintenance.

5. HYDRAULIC PERFORMANCE

Flow Rate (LPM)	Pressure Drop (kPa)
5	16
8	26
10	40
12	54
15	72



6. RELIABILITY & TESTING

- 100% Helium Leak Test: < 1.0×10^{-9} Pa·m³/s
- Pressure Test: 1 MPa for 5 minutes, no leakage
- Thermal Performance Test: Validated under full load conditions
- Corrosion Resistance Test: Pass
- Cleanliness: Suitable for pure water cooling system

7. APPLICATIONS

Designed for high-density AI servers, HPC systems and data centers using NVIDIA H200 GPUs and NVSwitch chips. Ideal for scenarios requiring high cooling capacity, low pressure drop and high reliability.

8. ORDERING INFORMATION

For custom configurations, additional accessories or special requirements, please contact ToneCooling sales team.