

NVIDIA L40 GPU Liquid Cold Plate

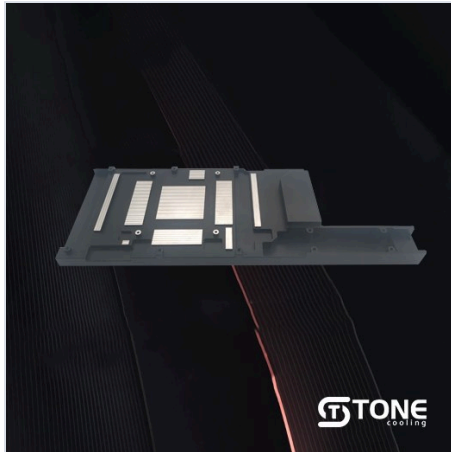
Model T-HS202321 · NVIDIA GPU · 270 W · Single-slot · Copper, FSW

Rated heat load
270 W

Max. surface temp.
<56 °C

Flow / pressure drop
0.8 LPM / 3 kPa

Total height
19 mm



T-HS202321

Single-slot cold plate for the NVIDIA L40. Friction-stir-welded copper body — no filler, no internal seam exposed to coolant — with the same 265 × 97 × 19 mm envelope as the L20 plate for mixed-GPU racks. 270 W below 56 °C at 50 °C inlet (6 K rise, ≈ 0.022 °C/W), 3 kPa at 0.8 LPM.

Performance & mechanical data

Parameter	Value
Rated heat load	270 W
Coolant (as tested)	40% EG / water (EGW)
Inlet coolant temperature	50 °C
Max. plate surface temperature	< 56 °C
Flow rate / pressure drop	0.8 LPM / 3 kPa
Working pressure rating	1 MPa
Dimensions (L × W × H)	265 × 97 × 19 mm
Form factor	Single-slot

Case-to-inlet thermal resistance: ≈ 0.0222 °C/W (from rated point)

Construction

Parameter	Value
Base material	Copper
Bonding process	FSW – Friction Stir Welding
Working pressure rating	1 MPa
Coolant compatibility	Water / EGW / PGW mixtures (validated as listed)
Fittings & port position	Per drawing; customisable on request
Leak test	100% pressure-tested before shipment

Typical applications

- Generative AI inference and rendering servers
- Virtual workstation (vGPU) hosts
- Dense multi-GPU 4U systems

Ordering & RFQ

How to order: quote model T-HS202321 with quantity and required fitting type.

RFQ checklist: target device / PCB, quantity, coolant type, inlet temperature, target flow rate, mechanical envelope.

Contact: www.tonecooling.com · sales@tonecooling.com

Performance values are typical results at the stated coolant, inlet temperature and flow rate; surface temperature is measured at the device contact area. TIM and mounting pressure affect final junction temperature. Specifications subject to change without notice. Third-party product names are trademarks of their respective owners and are used for compatibility reference only. © 2026 ToneCooling Technology Co., Ltd.