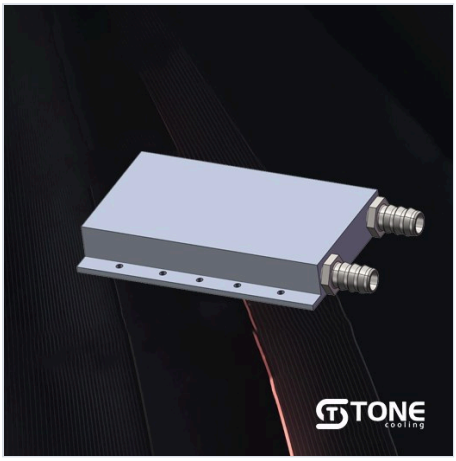
TEC Liquid Cold Plate for Battery Swap & Semiconductor Test

Model T-HS202332 · TEC hot-side · 2 × 65 W · Aluminium, FSW

Rated heat load	Max. surface temp.	Flow / pressure drop	Total height
65 W × 2	**<29°C**	**3.5 LPM / 7.5 kPa**	**14 mm**



T-HS202332

Small-format 95 × 64 × 14 mm aluminium cold plate for rejecting heat from the hot side of two 65 W thermoelectric modules. Friction-stir-welded, 0.2 MPa rating for low-pressure closed loops. Pure water at 3.5 LPM / 7.5 kPa and 25 °C inlet holds the TEC hot side at 29 °C (4 K rise) — the tight hot-side temperature that lets the TEC reach its rated ΔT for precision control.

Performance & mechanical data

Parameter	Value
Rated heat load	65 W × 2
Coolant (as tested)	Pure water
Inlet coolant temperature	25 °C
Max. plate surface temperature	< 29 °C
Flow rate / pressure drop	3.5 LPM / 7.5 kPa
Working pressure rating	0.2 MPa
Dimensions (L × W × H)	95 × 64 × 14 mm

Case-to-inlet thermal resistance: **≈ 0.0615 °C/W per device (from rated point)**

Construction

Parameter	Value
Base material	Aluminium
Bonding process	FSW — Friction Stir Welding
Working pressure rating	0.2 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

- EV battery swapping stations
- Semiconductor test and burn-in equipment
- Precision temperature-control modules

Ordering & RFQ

How to order: quote model T-HS202332 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.