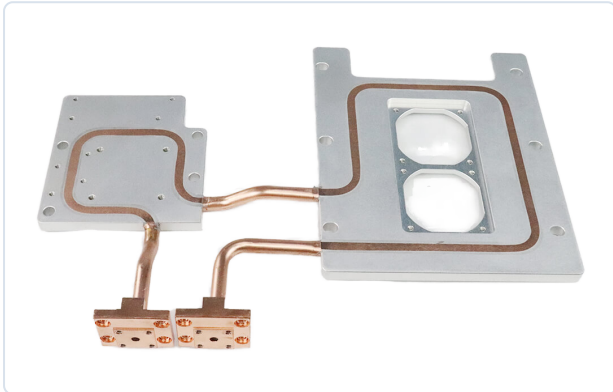


LIQUID COLD PLATE

Custom Liquid Cold Plate

Custom liquid cold plate — aluminium 6061 / 6063 construction — for high heat-flux electronics. Channel layout, material and fluid interface are engineered to the customer platform and validated by CFD.



REFERENCE OPERATING POINT

Custom liquid cold plate

at specified inlet and flow conditions; final performance confirmed per platform and system-level boundary conditions.

Engineering note: stated figures are design targets — confirmed per platform and system-level boundary conditions.

THERMAL PERFORMANCE

Heat dissipation (ref.) $¹$

Per application — CFD-validated per project

Thermal resistance

Per T_{case} / surface-temp target — CFD-validated

Cold-plate surface temp.

To customer limit

HYDRAULIC / FLUID

Coolant

DI water / inhibited water-glycol (EGW), per project

Coolant flow rate

Per design

Pressure drop

CFD / test-validated per design

Max operating pressure

Per project

MECHANICAL

Construction

Per design (CNC / brazed / FSW / tube-embedded)

Material

Aluminium 6061 / 6063

Dimensions

Per customer drawing

Flatness / finish

Per project

Mounting / interface

Per customer interface

RELIABILITY, TEST & COMPLIANCE

Leak / pressure test

100% leak / pressure test per project

Inspection

Dimensional + C-scan / ultrasonic for bonded parts

Process

CNC machining, welding, bending, cutting, punching

Compliance

RoHS support on request; CE / REACH documentation on request

Send your platform / module, heat load, coolant, flow rate, inlet temperature & mechanical envelope — ToneCooling returns a CFD-supported design proposal and quotation.