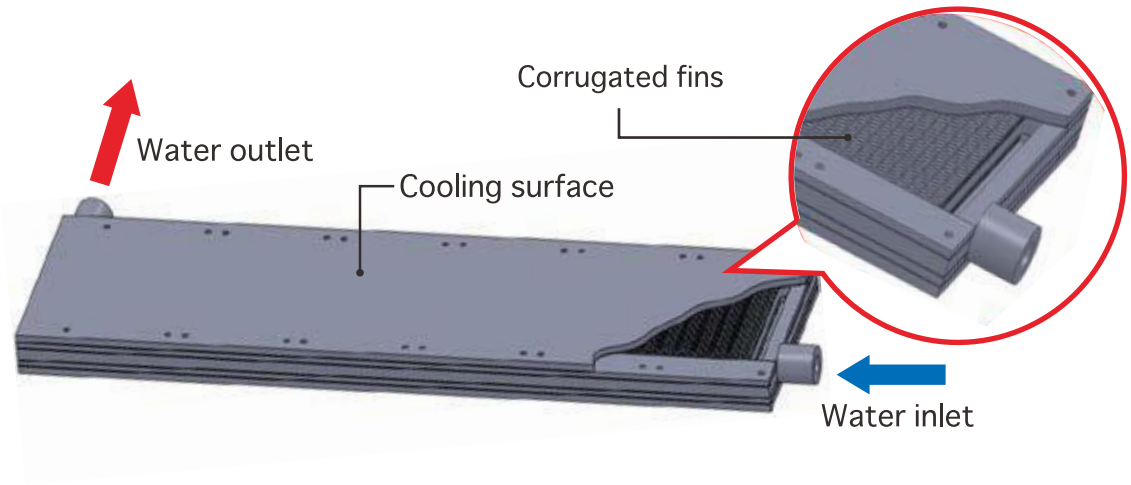
Cold plate, with brazed corrugated fin

Basic structure

Material: Aluminum Alloy



Corrugated fins are brazed in water passage.

Cross section photo of brazed part

Features

Low heat resistance, High Performance (Rθ=2 K/kW, or lower)	Enlarged heat transfer area, by our special narrow pitched corrugated fin allows high cooling capacity and low heat resistance.
Various corrugated fin selection for optimum performance	In accordance with your requirement, optimum corrugated fins can be selected from various selection.

Plain fin

Perforated fin

Serrated fin

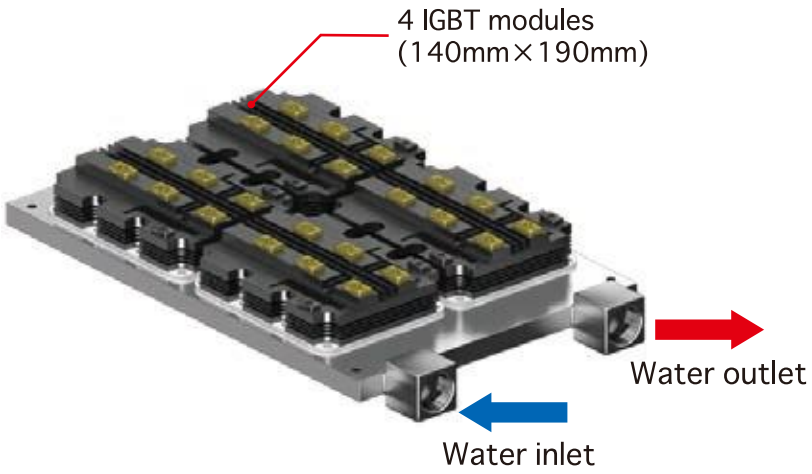
Low pressure drop ⟷ **High performance**

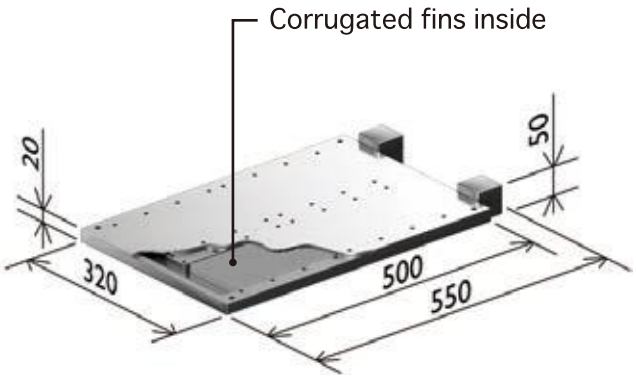
High flexibility in design	● Large size possible (max:1300*1800[mm]) ● Inner structure can be of designed as per requirement. Route of water passage can be controlled by arrangement of corrugated fins and bars.

Cold plate, with low Rθ (2 K/kW, or lower)

Performance example

Material: Aluminum Alloy

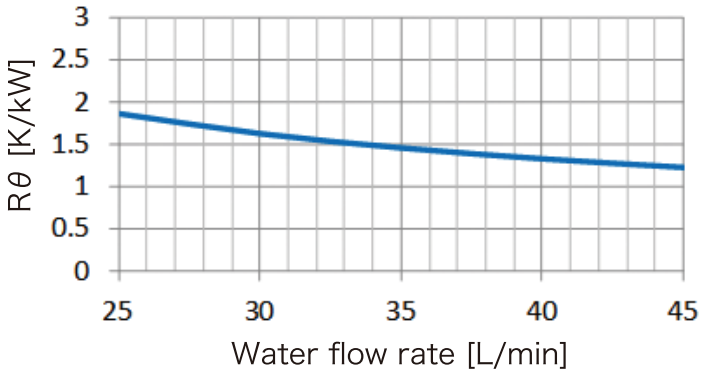




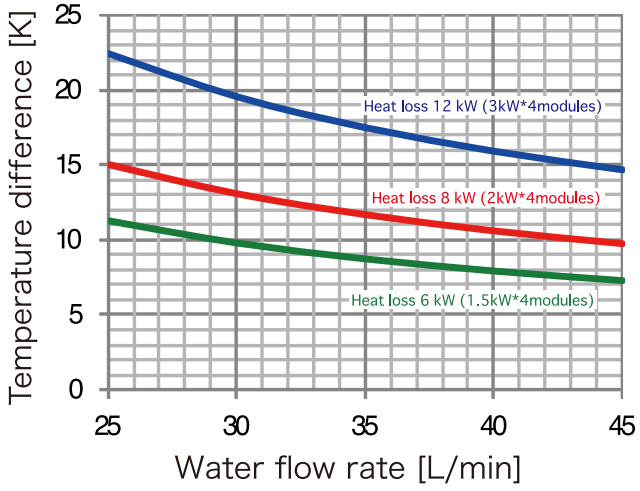
Calculation condition

Fluid	50% ethylene glycol water solution
Water inlet temp.	60 degC
Heat loss of modules	6 to 12 kW (1500 to 3000W per module)
Flow rate	25 to 45 L/min

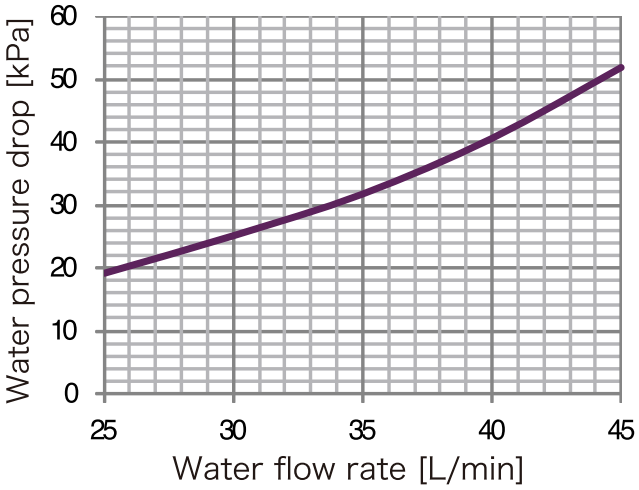
Heat resistance Rθ



Max. Temp. difference ΔT between cooling surface and water inlet



Water pressure drop ΔP for whole water passage



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