

One-Piece Vapor Chambers

Proven Design

Shipped in over a million products worldwide, our one piece vapor chambers have cooled everything from telecom equipment to high end graphics cards.

Enhanced Performance

Up to 30% better thermal performance than heat pipe solutions, with ten times the thermal conductivity and half the weight of solid copper.

Design Versatility

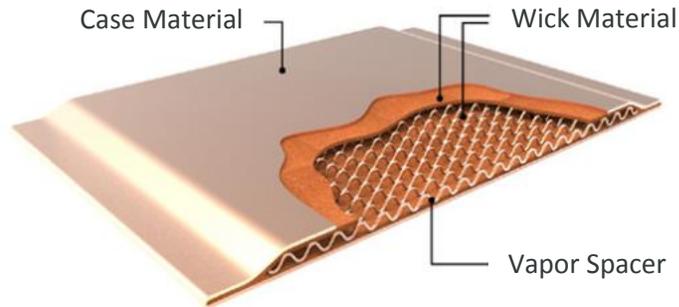
As thin as 1.0mm, are bendable, can be made up to 100mm x 300mm, and make direct contact with the heat source, further reducing thermal resistance.

Ideal Heat Pipe Replacement

Most heat pipe applications can be replaced with a one piece vapor chamber solution for less cost, better performance, and in some cases both.

Affordable, Thin & Bendable Two-Phase Heat Spreaders

Celsia pioneered one piece vapor chamber design and heat sink integration a decade ago to provide a **cost comparable yet thermally superior alternative to heat pipes**.



Cost Effective Process – a single sintered and compressed tube with spacer insert replaces a two piece clamshell design with individual columns used in standard vapor chambers.

Project Examples



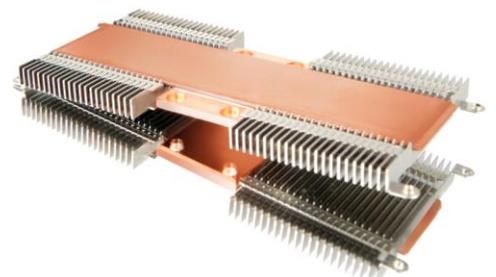
Thin & Bendable – LED spotlight application using a 2mm vapor chamber making direct contact with the heat source.



NEBS Compliant – Embedded stepped vapor chamber cools ASIC for long haul telecom application.



High Power – Single source 900W laser medical application distributes heat across four 300mm long vapor chambers.



Low Profile – Telecom application requiring total heat sink thickness of less than 7mm.

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Making Hot Technology Cooler