



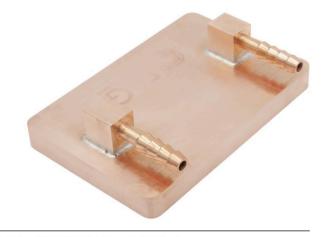
Waterless 2-Phase Cold Plates

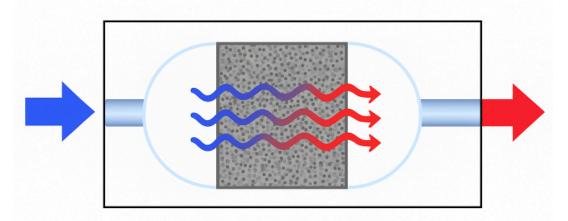
Waterless cooling for next-generation AI systems.

Duocel® 2-Phase Cold plates are designed specifically for 2-Phase cooling Our proprietary foam increases heat transfer and prevent hot spots

Step up to Duocel®

- Performance and Efficiency
 - Harness up to 80% of the refrigerant's boiling capacity for maximum efficiency
 - Dry-out: Turbulence prevents dry-out by continuously redistributing liquid across every surface
 - No Hot-Spots: Boiling at the hot spot increases heat transfer providing additional localized cooling
 - Unmatched Performance: 400 Watts CM²
- Reliability and Sustainability
 - Turbulent fluid dynamics maintain uniform chip temperatures; no overheating, no downtime.
 - Waterless system virtually eliminates the risk of leaks
 - Dynamic Self-Regulation: Heat coefficients scale proportionally with load to maintain consistent temperature distribution





The Perfect Fit for AI Data Centers

Proven Performance

Advantages of our patented Duocel Foam:

- Dielectric refrigerants undergo phase change (liquid-tovapor) directly at the heat source
- Turbulence throughout the cold plate prevents air pockets and dry out

"Harness Duocel® 2-Phase technology for maximum efficiency, zero water risk, and no hot spots."

Benefits of Duocel® Waterless Liquid Cold Plates

Hot Spot Mitigation

- Two-phase boiling removes heat precisely where flux is highest, no uneven temperature distribution.
- Reduces internal gradients, enabling faster, more consistent cooling

Improved Thermal Properties

- Keeps your chips cooler by design less than 5°C variation
- 400 Watts of heat removal per CM²

Reliability

• Waterless closed loop systems minimizes corrosion, scaling, and leak risks.

Manufacturing & Lifecycle Support

Vertically Integrated

 Engineering design, thermal modeling, prototyping, testing, and production under one roof

Decades of Experience

ERG has been providing foam based cold plates since the 1980's









See Duocel® in action — request a demo or performance analysis!

Partner with ERG Aerospace for innovative solutions that prioritize performance, sustainability, and integration.

DELIVERING EFFICIENCY, POWER, AND SUSTAINABILITY IN THERMAL MANAGEMENT



(510) 658-9785 sales@ergaerospace.com ergaerospace.com









