COMPANY EVALUATION Leading Investment Firm (June 2025)

Evaluation of Accelsius' NeuCool™ Technology



ACCELSIUS

Founded: June 2022 Headquarters: Austin, TX Employees: 75+ Solution: NeuCool, a twophase, direct-to-chip liquid cooling technology



Discover More About Our Mission



KEY FINDINGS

Unmatched Thermal Performance

Delivers **4,500W per GPU socket**, outperforming ZutaCore (2800W) and exceeding the limits of next-gen single-phase cold plates (CoolIT at 4000W).

→ NeuCool sets the bar for AI-era cooling.

Future-Proofed For Power Wars

Designed with **substantial thermal headroom**, ensuring support for **multiple chip generations** (e.g. GB200, MI355X).

 \rightarrow Customers invest once, stay ready for years.

Sustainability Without Compromise

Operates reliably on **40°C facility water** and reduces chiller energy, enabling **25%+ energy savings** vs. single-phase.

→ Delivers on ESG without sacrificing performance.

Safe & Non-Conductive By Design

Uses a **dielectric refrigerant** with an **A1 safety rating** and **GWP<1**, unlike water-based systems that risk downtime and damage. → Leak events become non-events.

More Efficient Than Single-Phase

Achieves high heat removal with **dramatically lower flow rates**, meaning **smaller pumps**, **fewer parts**, and **easier maintenance**. → Less complexity, lower TCO.

Validated Across a Full Rack Load

Demonstrated **250kW rack-level performance**; >2X the capability of other two-phase competitors—proof of readiness for **real-world hyperscale AI deployments**.

 \rightarrow Beyond claims, Accelsius has proven results.