Intelligent Cold Aisle Immersion Liquid Cooling Manufacturers



Overview

Explore the top 25 immersion cooling companies shaping the future of data centers, AI, and edge computing in 2025 and beyond. Market leaders, trends, and growth insights inside.

Key Takeaways

Leading suppliers of intelligent cold aisle immersion liquid cooling include LiquidStack, Submer, Vertiv, and Asperitas, offering scalable, energy-efficient solutions for high-density data centers and AI workloads. Key Suppliers and OfferingsLiquidStack provides advanced liquid cooling solutions, including single-phase and two-phase immersion systems, as well as direct-to-chip cooling with capacities up to 252 kW per unit. Their solutions are designed for high-density workloads such as generative AI, hyperscale computing, and cryptocurrency mining.

Liquid

Stack also offers consulting, installation, training, and lifecycle maintenance to optimize performance, energy efficiency, and sustainability metrics like PUE, WUE, and ERF, while enabling heat reuse for district heating or industrial applications. Submer specializes in engineered hardware for liquid-cooled data centers, including immersion cooling pods and DLC systems.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Their Smart

Pod EV

O platform allows rapid deployment and scaling from kilowatt to gigawatt levels. Submer emphasizes modularity, co-design capabilities, and operational efficiency, providing pre-engineered building blocks for AI-ready infrastructure and high-density workloads. Vertiv offers a range of liquid cooling options, including rear-door heat exchangers, direct-to-chip cold plates, and immersion cooling systems.

Their solutions integrate with existing air-cooling infrastructure and include leak detection, dielectric fluids, and heat recovery strategies. Vertiv supports complex designs and provides technical guidance, enabling organizations to manage high thermal loads while maintaining reliability and energy efficiency. Asperitas combines Directed Forced Convection (DFC) technology with immersion cooling fluids to deliver next-generation immersion cooling.

Their systems allow targeted thermal management within server chassis, improving energy efficiency and reducing operational costs.

Considerations for Deployment

Cooling Type: Single-phase vs. two-phase immersion, direct-to-chip, or hybrid systems. Scalability: Modular solutions allow expansion from small micro data centers to hyperscale facilities. Energy Efficiency: Metrics like PUE, WUE, and ERF are critical for sustainability.

Integration: Compatibility with existing air-cooling systems and potential for heat reuse. Support Services: Consulting, installation, training, and lifecycle maintenance are essential for ROI and operational reliability. These suppliers provide comprehensive solutions for organizations seeking intelligent cold aisle immersion liquid cooling, particularly for high-density, AI, and HPC workloads, ensuring both performance and sustainability.

Article Content

Top 25 Immersion Cooling Companies to Watch in 2025 and Beyond

Explore the top 25 immersion cooling companies shaping the future of data centers, AI, and edge computing in 2025 and beyond. Market leaders, trends, and growth insights inside.

LiquidCool Solutions: Immersion-Cooled Rack Servers

LiquidCool Solutions is the only company combining Total Liquid Immersion with Directed Flow (direct-to-chip) in a standard 19″ rack. Because liquid cools 1,000x

Top 10: Liquid Cooling Companies | Data Centre Magazine

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

The company designs and manufactures a range of products, including server immersion coolers, coolant distribution units (CDUs), GPU and

Datacenters that make sense | Liquid Cooling at Scale | Submer

Company specializing in immersion liquid cooling solutions for data centers. We create liquid-cooled datacenters that scale smarter, run cleaner and cost less.

Advanced Liquid Cooling Solutions Provider | LiquidStack

LiquidStack holds multiple awards for building the world''s most efficient liquid cooled data center solutions. From micro data centers to hyperscale sites, we have the experience to deliver your

Top 10: Liquid Cooling Companies | Data Centre Magazine

CEO: Maciek Szadkowski Founded: 2019 Headquarters: Poland DCX Liquid Cooling Systems is a global manufacturer offering an extensive

Liquid Cooling in Data Centers Explodes in 2026: How

AI-driven power densities are making liquid cooling essential. Cold plate cooling leads today, while immersion cooling shapes the future of high

Top 25 Immersion Cooling Companies to Watch in 2025 and Beyond

To gain comprehensive benchmarks, actionable segmentation, and advanced regional insights, access the full Immersion Cooling Market by Cooling Technology, Components, Cooling Capacity, Coolant

Top 100 Immersion Cooling Companies in 2026 | ensun

We are experts in the designing, engineering, and manufacturing immersion cooling systems. Teimmers provide liquid immersion cooling specialists.

Data Centre Cooling Systems

Data Centre Cooling Systems Our data centre cooling systems are intelligent, scalable and energy efficient. They include DX (direct expansion) systems using liquid refrigerant and chilled water, and

Dell PowerEdge Server Cooling: Choose the Cooling Options That

The Dell server portfolio powered by AMD EPYC enables multiple, flexible cooling options to suit your business-critical workloads, including AI.As compute-intensive activities such as

H3C Spearheads Liquid Cooling Technological

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

As a leader in digital solutions, H3C has participated in the formulation of many industry standards and specifications for the design of liquid

Top 10: ''Coolest'' Cooling Companies

Its liquid-cooled server racks have allowed the company to partner with the likes of Dell Technologies, Intel and Vertiv. 3. Gigabyte Gigabyte offers single-phase and two-phase immersion

LiquidCool Solutions: Immersion-Cooled Rack Servers

Meet soaring compute demands efficiently with LiquidCool Solutions'' versatile, immersion cooling for high-performance GPU dense servers. Perfect for data centers, AI, edge computing, and tough

12 Best Data Center Cooling Companies in 2026 [Full

Discover how innovative data cooling companies are revolutionizing data center cooling with sustainable solutions that slash energy use.

Top Immersion Cooling Companies in United States

TMGcore specializes in high-performance computing solutions, prominently featuring Liquid Immersion Technology for optimal cooling. Their innovative approach to immersion cooling enhances efficiency

Data Center Liquid Cooling Solutions | LiquidStack

Ultra-compact, sustainable and highly efficient liquid cooling solutions for data centers. Learn about our data center cooling systems here and get in touch!

Immersion liquid cooling for electronics: Materials, systems ...

The current work systematically reviews the research progress on immersion cooling technology in electronic device thermal management, including the properties of immersion coolants,

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved