

Free quote for immersion liquid cooling in hot aisle of computer room



Article Overview

You can request a free quote for immersion liquid cooling from specialized vendors like LiquidCool Solutions or Schneider Electric, which provide high-density, direct-to-chip or full immersion systems for computer rooms.

Why Immersion Cooling is Relevant

Immersion liquid cooling is ideal for hot aisles in high-density computer rooms where traditional air cooling cannot efficiently remove heat. It allows racks to handle 50–120 kW or more per rack, far exceeding the 5–20 kW limits of conventional air cooling, and reduces energy consumption with PUE often below 1.2 . By submerging servers in dielectric fluids or using direct-to-chip cold plates, heat is transferred 1,000 times more efficiently than air, enabling higher compute density and smaller footprints .

Key Benefits

- **Energy Efficiency:** Achieves PUE of 1.03–1.08 versus 1.50–1.80 for air cooling, reducing operational costs .
- **Water Savings:** Uses 95–98% less water compared to evaporative cooling towers .
- **Scalability:** Supports AI, GPU, and HPC workloads with racks up to 400 kW or more .
- **Integration:** Systems can be inserted into existing racks with minimal disruption, and maintenance is straightforward .

How to Obtain a Free Quote...

Article Content

Advanced Liquid Cooling Solutions Provider | LiquidStack

LiquidStack – your full service provider of the world's most powerful, sustainable and energy-efficient data center cooling technology

What Is Immersion Cooling for Data Centers? – How It Works

What Is Immersion Cooling? Immersion cooling is a type of liquid cooling used to moderate data center equipment

Liquid cooling solutions for AI and high-density data centers ...

Liquid cooling is often seen as water-intensive, but modern systems are designed to minimize consumption and improve efficiency.

Liquid Cooling | Center of Expertise for Data Center Efficiency

Overview Liquid cooling in data centers can be implemented with a broad range of technologies. These technologies range from

Data Center Cooling Methods Explained: Air Cooling vs Liquid Cooling ...

Learn the major data center cooling methods including air cooling, liquid cooling & immersion cooling used in modern

Immersion Cooling

Implement our cutting-edge immersion cooling technology in your liquid cooling systems for enhanced performance, reliability, and

Getting Started on a Liquid Immersion Cooling Journey

Before you jump on the liquid immersion cooling bandwagon, it's essential to understand your use cases and where liquid immersion

Immersion Cooling for Data Centers: A Comprehensive Guide

Discover how immersion cooling is transforming data centers with better efficiency, space savings, and sustainability.

Immersion cooling

Immersion cooling is a method where electronic parts or whole servers are put into a special, electrically safe liquid for cooling. The

An introduction to liquid cooling in the data center

Although air-based cooling options exist for racks drawing more than 20kW, they are often cumbersome to install and

Immersion Cooling Solution for Data Centers

Implement Immersion Cooling in Your IT Deployment Strategy Submerge your server into a bath of non-conductive liquid and allow

Performance improvement of high-density data center via two-phase ...

This paper introduces two distinct approaches for efficiently cooling high-density data centers with a capacity of up to

Liquid and Immersion Cooling Options for Data Centers

Long proven for mainframe and gaming applications, liquid cooling is expanding to protect rack-mounted servers in data centers

Designing and Planning Liquid Cooling Data Centers for Optimal ...

Discover best practices for designing and planning liquid - cooled data centers for optimal performance. Learn about

Immersion Cooling Data Centers | Hyperscale Builds 2025

Learn why immersion cooling is moving mainstream in hyperscale data centers. Explore benefits, adoption trends, and

Liquid Cooling vs Immersion Cooling: What's the

Discover the key differences between liquid and immersion cooling and choose the most efficient data

Liquid & Immersion Cooling in Colocation | Datacenters

Discover how colocation sites are adapting to liquid and immersion cooling in 2025. Learn why these technologies

The immersion cooling technology: Current and future development in ...

This method has developed in various types with their respective advantages and disadvantages according to

Benefits of Immersion Cooling in Modern Data Centers

Uncover the benefits of immersion cooling. Our liquid immersion cooling solutions ensure optimal efficiency and sustainability without

Liquid Cooling | Center of Expertise for Data Center Efficiency

These technologies range from transferring heat to a liquid far from the source (e.g. computer room air handlers (CRAHs)) to

Liquid and Immersion Cooling Options for Data Centers

Data center operators are evaluating liquid cooling options, as processing-intensive computing applications grow. The market for

LCS ZPServer | Immersion-Cooled Rack Server for Data Centers & AI

DATA CENTER & AI LIQUID COOLING High density computing with Immersion-cooled rack servers for data centers & AI As

Immersion Cooling Is Ready for its Big Moment in the Data Center

Single-phase immersion cooling uses a thermally conductive dielectric liquid or coolant, either an engineered fluid or mineral oil. The

101 Guide to Data Center Liquid Cooling: A \$14.8 Billion Market by

Why liquid cooling has become a critical requirements in data centers today. What the difference is between immersion and direct-to

Liquid vs Air Cooling for Data Centers 2026: Cost & Efficiency Analysis

At Energy Solutions Intelligence, we analyze operational data from hyperscale operators, colocation providers, and enterprise

Immersion and liquid cooling for AI data centers | NorthC

AI workloads and HPC require efficient cooling. Discover how immersion and liquid cooling save energy, enhance performance, and

Data Center Cooling: Thermal Management, CFD, & Liquid Cooling

Data center cooling is now a first-order design constraint, not an afterthought, as AI, hyperscale cloud, and

Contact Us

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