

What kind of environment is suitable for cooling AI servers



Overview

Liquid-cooled servers will need to work alongside air-cooled IT equipment, leading to a hybrid environment. Direct-to-chip and immersion cooling provide great opportunities for increased heat rejection efficiencies and better parameters for heat re-use. Hot tubs sit at about 38 to 40 degrees Celsius, warm enough that most people can only soak for about 15 minutes. As AI workloads drive higher heat densities, the liquid cooling market is projected to expand rapidly—with. Rising energy consumption is not the only environmental concern associated with AI. Data centers also have a thirst for water, as large amounts of water are required both directly for cooling and indirectly for electricity generation and material manufacturing.



Article Content

Nov 27, 2025

(PDF) AI-driven cooling technologies for high ...

AI-driven cooling technologies for high-performance data centres: state-of-the-art review and future directions ☆

Nov 13, 2025

Hotter Than a Hot Tub: The 45°C Breakthrough to Cool AI's Biggest ...

NVIDIA's newest AI servers can run their cooling liquid even hotter — up to 45 degrees Celsius, or 113 degrees Fahrenheit. That

Mar 25, 2026

AI's Cooling Problem: How Data Centers Are Transforming Water Use

More than 160 new AI data centers have sprung up across the US in the past three years in places with scarce water resources. The

Aug 15, 2025

Cooling solutions for AI workloads in evolving data centers

Effective cooling solutions are paramount if data centers are to meet the ever-growing demands of AI workloads – and

Oct 13, 2025

AI Server Cooling Systems: Importance and Best Methods

Explore AI server cooling solutions—liquid vs air, thermal management, power efficiency, and reliability for high

Nov 16, 2025

Liquid Cooling vs Air Cooling for AI Data Centers | Introl Blog

Whether optimizing air cooling efficiency or implementing liquid cooling infrastructure, we deliver solutions that balance

Feb 26, 2026

Liquid cooling of data centers: A necessity facing challenges

Indirect water cooling with rear door heat exchangers is a simple water cooling adaptation for reducing the power

Nov 10, 2025

Liquid cooling becoming essential as AI servers proliferate

In most cases, liquid cooling is deployed in a hybrid environment. In data centers with liquid cooling, typically only

Feb 28, 2026

Why Liquid Cooling Matters for AI Scale | CoreWeave

Liquid cooling is essential to safely increase the number of GPUs per rack and rack power density. That's a big

Nov 26, 2025

AI-driven cooling technologies for high-performance data centres:

By mapping trade-offs across performance, cost, and sustainability, this study offers actionable insights for data centre

Oct 19, 2025

The AI Craze Is Highlighting The Cooling Crunch

Industry analyst Matt Kimball explains the impact of power-hungry AI workloads on datacenter operations, and why

Mar 05, 2026

How to Pick a Server Cooling Solution?

It is vital to keep temperature control in mind when purchasing servers. A good cooling solution keeps things running

Jun 11, 2026

Answering the top FAQs on AI and liquid cooling

Here are the top frequently asked questions on liquid cooling for data centers to address the growth of high-density

Dec 08, 2025

Data centers in the age of AI: A tutorial survey on infrastructure ...

Data centers have become the backbone of the digital economy, supporting cloud services, digital platforms, and the growing

Aug 03, 2025

The four techniques you need to know to cool AI data centres

The rise of AI is driving high-density demands that traditional air-cooling alone can't handle - these are the four critical

Jun 09, 2026

AI's Cooling Problem: How Data Centers Are Transforming Water Use

Rising energy consumption is not the only environmental concern associated with AI. Data centers also have a thirst for water, as

Aug 21, 2025

How to Optimize Cooling for AI-Powered Data Centers

Preparing for now and the future As AI technology continues to evolve, the demands on data center infrastructure will intensify. Now

Sep 28, 2025

Taking the heat out of AI. Sustainable solutions for liquid cooled AI ...

Liquid-cooled servers will need to work alongside air-cooled IT equipment, leading to a hybrid environment. Direct-to-chip and

Jun 16, 2026

AI-driven cooling technologies for high-performance data centres:

This study presents a comprehensive, system-wide review of next-generation cooling technologies, including direct

Jul 21, 2026

How Data Center Cooling Works & Can Promote Sustainability

What is data center cooling? Data center cooling is exactly what it sounds like: controlling the temperature inside data

Feb 28, 2026

Why Liquid Cooling For AI Data Centers Is Harder Than It Looks

Liquid cooling is essential for AI data centers—but deploying it at scale requires advanced design, smart vendors and

Sep 14, 2025

Meeting data center cooling demands in the AI era

With cooling responsible for up to 40 percent of a data center's total energy consumption, adapting cooling

Feb 16, 2026

Liquid cooling best practices for AI data centers

Discover liquid cooling best practices for AI data centers, including design, deployment, maintenance, and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

