

# 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

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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

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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

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

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

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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

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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

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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

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

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

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

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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

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

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Meeting data center cooling demands in the AI era

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Liquid cooling best practices for AI data centers

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## Contact Us

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