

U.S. Data Center Cooling Market Size, Share & Trends Analysis By Component (Solution, Services), By Type (Raised Floors, Non-Raised Floors), By Containment, By Structure (Rack-Based Cooling, Row-Based Cooling), By Application, By Solution, By Services, And Segment Forecasts, 2026 - 2033

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Abstracts

U.S. Data Center Cooling Market Summary

The U.S. data center cooling market size was estimated at USD 6.58 billion in 2025 and is projected to grow from USD 7.50 billion in 2026 to USD 22.15 billion by 2033, at a CAGR of 16.7% from 2026 to 2033. The growth is attributed to the rapid expansion of hyperscale and colocation data centers across the country.

Major cloud service providers such as Amazon Web Services (AWS), Microsoft Azure, Google Cloud, and Meta continue to invest heavily in large-scale data center infrastructure to support rising enterprise cloud adoption, streaming services, e-commerce, and digital transformation initiatives. The accelerating deployment of artificial intelligence (AI), generative AI workloads, and machine learning infrastructure is also contributing significantly to the growth of the U.S. data center immersion cooling market. AI training clusters and GPU-intensive computing environments consume considerably more power and generate substantially higher thermal loads than conventional IT workloads. Advanced processors from NVIDIA, AMD, and Intel require sophisticated cooling mechanisms such as liquid cooling, immersion cooling, rear-door heat exchangers, and direct-to-chip cooling to ensure performance efficiency and hardware reliability. This increasing thermal intensity is accelerating the adoption of immersion-based cooling technologies due to their superior heat dissipation capabilities,

energy efficiency, and ability to support ultra-high-density computing environments. Therefore, the rapid expansion of AI-ready data centers is driving substantial investments in next-generation cooling systems across data center immersion cooling market.

Increasing rack power density within modern data centers is also accelerating the adoption of advanced cooling infrastructure. Traditional air-cooling systems are becoming less effective for racks exceeding 20-30 kW power densities, while AI and HPC environments can exceed 100 kW per rack. This shift is driving rapid adoption of liquid cooling technologies that offer superior heat transfer efficiency and support higher computational performance. As enterprises modernize their IT infrastructure to support advanced analytics, AI applications, and high-frequency data processing, demand for innovative cooling architectures continues to increase across the U.S. data center power market.

U.S. Data Center Cooling Market Segmentation

This report forecasts revenue growth at country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. data center cooling market report based on component, solution, services, type, containment, structure, and application.

Component Outlook (Revenue, USD Billion, 2021 - 2033)

Solution

Services

Solution Outlook (Revenue, USD Billion, 2021 - 2033)

Air Conditioners

Precision Air Conditioners

Chillers

Air Handling Units

Others

Services Outlook (Revenue, USD Billion, 2021 - 2033)

Installation & Deployment

Support & Consulting

Maintenance Services

Type Outlook (Revenue, USD Billion, 2021 - 2033)

Raised Floors

Non-Raised Floors

Containment Outlook (Revenue, USD Billion, 2021 - 2033)

Raised Floor with Containment

Hot Aisle Containment (HAC)

Cold Aisle Containment (CAC)

Raised Floor without Containment

Structure Outlook (Revenue, USD Billion, 2021 - 2033)

Rack-Based Cooling

Row-Based Cooling

Room-Based Cooling

Application Outlook (Revenue, USD Billion, 2021 - 2033)

Telecom

IT

Retail

Healthcare

BFSI

Energy

Others

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