

Global Data Center Thermal Management Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Thermal Management Service market size is expected to reach \$ 1156 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Data Center Thermal Management Service refers to specialized thermal environment management and optimization services for data center infrastructure. These services encompass cooling system design, operational optimization, energy consumption management, fault diagnosis, the tuning of liquid/air cooling systems, and the enhancement of overall thermal efficiency. By integrating sensor monitoring data, Building Management Systems (BMS), Data Center Infrastructure Management (DCIM) systems, AI algorithms, and digital twin models, these services continuously analyze and optimize server room temperature distribution, airflow patterns, cooling loads, and energy consumption. The core objectives are to improve heat dissipation efficiency, lower Power Usage Effectiveness (PUE), reduce energy costs, and ensure the stable operation and extended lifespan of IT equipment in environments characterized by high-density computing and AI workloads. These services are widely applied in cloud data centers, AI computing centers, and high-performance computing facilities.

The global landscape of Data Center Thermal Management Services is characterized by North American leadership, a green-driven approach in Europe, and rapid growth in the Asia-Pacific region. The North American market is propelled by the surge in AI computing power, the construction of hyperscale data centers, and the adoption of liquid cooling technology; service priorities there focus on AI-driven thermal optimization, digital twin-based thermal management, and automated energy control. The European market emphasizes carbon neutrality and energy efficiency regulations, driving high demand for low-carbon thermal optimization and energy-saving services. The Asia-

Pacific region is growing rapidly, fueled by data center expansion in China, Japan, South Korea, and Southeast Asia, with a particular focus on liquid cooling deployment and hybrid cooling system optimization. The market is currently transitioning from traditional O&M services to AI-driven intelligent thermal management, with customers increasingly prioritizing real-time energy optimization, predictive maintenance, multi-system coordinated control, and carbon emission management capabilities. Future trends include AI-based predictive thermal scheduling, digital twin-enabled data center operations, the 'servitization' of full liquid cooling systems, thermal optimization for edge data centers, and the development of automated O&M platforms. Key challenges include the complexity of multi-system data integration, high technical implementation barriers, significant initial investment costs, stringent requirements for professional O&M expertise, and a lack of unified standards. The industry's average gross margin typically ranges from 40% to 70%; standardized SaaS offerings and AI optimization platforms command higher margins, whereas customized engineering optimization and on-site O&M services yield relatively lower margins.

This report studies the global Data Center Thermal Management Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Thermal Management Service, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Thermal Management Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Thermal Management Service total market, 2021-2032, (USD Million)

Global Data Center Thermal Management Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Data Center Thermal Management Service total market, key domestic companies, and share, (USD Million)

Global Data Center Thermal Management Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Data Center Thermal Management Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Data Center Thermal Management Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Data Center Thermal Management Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schneider Electric SE, Vertiv Holdings Co, Siemens AG, ABB Ltd., Johnson Controls International plc, Honeywell International Inc., Emerson Electric Co., Carrier Global Corporation, Trane Technologies plc, STULZ GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Data Center Thermal Management Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Thermal Management Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Thermal Management Service Market, Segmentation by Type:

Remote Monitoring Thermal Management Service

On-Site O&M Thermal Management Service

Managed Thermal Management Service

Others

Global Data Center Thermal Management Service Market, Segmentation by PUE Improvement Rate:

PUE Improvement Rate: 3%?10%

PUE Improvement Rate: 10%?25%

PUE Improvement Rate: 25%?40%

Global Data Center Thermal Management Service Market, Segmentation by Application:

Hyperscale Data Centers

Colocation Data Centers

Edge Data Centers

Enterprise Data Centers

Companies Profiled:

Schneider Electric SE

Vertiv Holdings Co

Siemens AG

ABB Ltd.

Johnson Controls International plc

Honeywell International Inc.

Emerson Electric Co.

Carrier Global Corporation

Trane Technologies plc

STULZ GmbH

Equinix, Inc.

NTT Data Center Management

ZTE Corporation

Sify Technologies Limited

Fujitsu Limited

Hitachi

NEC Corporation

Huawei

Key Questions Answered

1. How big is the global Data Center Thermal Management Service market?
2. What is the demand of the global Data Center Thermal Management Service market?
3. What is the year over year growth of the global Data Center Thermal Management

Service market?

4. What is the total value of the global Data Center Thermal Management Service market?

5. Who are the Major Players in the global Data Center Thermal Management Service market?

6. What are the growth factors driving the market demand?

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