

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

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Abstracts

The global Data Center Thermal Management Software market size is expected to reach \$ 1074 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Data Center Thermal Management Software refers to intelligent software systems designed to monitor, analyze, optimize, and control the overall thermal environment of data centers, primarily serving AI data centers, cloud computing centers, and high-performance computing (HPC) infrastructure. By integrating data from temperature sensors, airflow monitoring equipment, liquid cooling systems, air conditioning units (CRAC/CRAH), coolant distribution units (CDUs), and rack-level thermal sensors, the software enables real-time modeling and optimization of heat distribution, energy efficiency, cooling loads, and equipment operating status. Core functions include thermal simulation analysis, dynamic load adjustment, energy optimization, hotspot identification, predictive thermal control, and digital twin-based thermal management, thereby reducing PUE (Power Usage Effectiveness), enhancing cooling efficiency, and ensuring the stable operation of high-density computing equipment.

The global market for data center thermal management software is characterized by North American leadership, a green-driven European market, and rapid growth in the Asia-Pacific region. Driven by the surge in AI computing power, the construction of hyperscale data centers, and the adoption of liquid cooling technology, the North American market focuses on AI-driven thermal optimization, digital twin modeling, and automated cooling control. Europe emphasizes carbon neutrality and energy efficiency regulations, resulting in high demand for low-carbon thermal management and energy optimization software. 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

optimizing hybrid liquid and air cooling systems. The market is currently transitioning from traditional monitoring software to AI-driven intelligent thermal management platforms; customers increasingly prioritize PUE optimization, real-time thermal simulation, automated tuning, and multi-system coordinated control capabilities. Future trends include AI-based predictive thermal scheduling, digital twin data centers, all-liquid cooling thermal management platforms, thermal optimization for edge computing, and carbon-emission-driven optimization algorithms. Key challenges include the complexity of multi-system data integration, stringent requirements for thermal model accuracy, a lack of standardized hardware protocols, high initial deployment costs, and the need for specialized operational expertise. The industry's average gross margin typically ranges from 45% to 70%; standardized SaaS platforms and AI optimization software command higher margins, while customized integration and complex system modeling services yield relatively lower margins.

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

This report is a detailed and comprehensive analysis of the world market for Data Center Thermal Management Software, 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 Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

This report profiles major players in the global Data Center Thermal Management

Software 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, Huawei Technologies Co., Ltd., Alibaba Cloud Computing Co., Ltd., Tencent Cloud Computing, Amazon Web Services, Inc., Microsoft Corporation, 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 Software 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 Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Thermal Monitoring and Visualization Software

Thermal Simulation and Modeling Software

Ai-Driven Thermal Load Optimization Software

Energy Consumption and PUE Optimization Software

Others

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

PUE Improvement ? 10%

PUE Improvement 10%?25%

PUE Improvement > 25%

Global Data Center Thermal Management Software 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

Huawei Technologies Co., Ltd.

Alibaba Cloud Computing Co., Ltd.

Tencent Cloud Computing

Amazon Web Services, Inc.

Microsoft Corporation

Google LLC

IBM Corporation

Equinix, Inc.

NTT Data Center Management

STULZ GmbH

Key Questions Answered

1. How big is the global Data Center Thermal Management Software market?
2. What is the demand of the global Data Center Thermal Management Software market?
3. What is the year over year growth of the global Data Center Thermal Management Software market?
4. What is the total value of the global Data Center Thermal Management Software market?
5. Who are the Major Players in the global Data Center Thermal Management Software market?

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

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