

# Global Data Center Thermal Management Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Data Center Thermal Management market size was valued at US\$ 10686 million in 2025 and is forecast to a readjusted size of US\$ 24714 million by 2032 with a CAGR of 12.7% during review period.

Data center thermal management refers to the process of effectively controlling and managing the heat generated during the operation of equipment within the data center, aiming to ensure the stable operation of the data center and the long-term reliability of the equipment. Since a large number of servers, storage devices and network equipment are integrated in the data center, these devices will generate a large amount of heat during operation. If the heat cannot be dissipated in a timely and effective manner, it may lead to a decrease in equipment performance, an increase in failure rate, and even a fire. and other security issues.

1. Rapid growth in data center capacity driven by cloud computing, AI, and high-performance workloads.

The accelerating adoption of cloud services, hyperscale computing, artificial intelligence (AI), machine learning (ML), and high-performance computing (HPC) is significantly increasing server density and rack power levels within data centers. Modern AI training clusters and GPU-based workloads often exceed 30–50 kW per rack, far above traditional enterprise data center designs. This rapid rise in heat density creates a critical need for advanced thermal management solutions, including precision air conditioning, liquid cooling, rear-door heat exchangers, and direct-to-chip cooling systems. As data centers scale both in size and computing intensity, effective thermal

management becomes essential to maintain system reliability, reduce hardware failure rates, and ensure uninterrupted operations, directly driving demand across the data center thermal management market.

2. Increasing energy efficiency requirements and pressure to reduce operating costs and carbon emissions.

Energy consumption related to cooling represents a substantial portion of total data center operating expenses, often accounting for 30–40% of overall power usage. Governments, regulators, and enterprise customers are placing growing emphasis on energy efficiency metrics such as Power Usage Effectiveness (PUE), carbon footprint reduction, and sustainability compliance. As a result, data center operators are investing in more efficient thermal management technologies, including free cooling, evaporative cooling, liquid immersion cooling, and AI-driven cooling optimization systems. These solutions help reduce electricity consumption, improve cooling efficiency, and support corporate net-zero and ESG targets, making energy-efficient thermal management a key market driver across hyperscale, colocation, and enterprise data centers.

3. Expansion of edge data centers and geographic diversification into high-temperature regions.

The global expansion of edge computing infrastructure and the construction of data centers in emerging markets and warmer climates are further accelerating demand for advanced thermal management solutions. Edge data centers are often deployed in compact spaces with limited airflow and higher ambient temperatures, creating unique cooling challenges compared to traditional centralized facilities. Additionally, rapid data center investments in regions such as Southeast Asia, the Middle East, India, and parts of Latin America require cooling systems capable of operating efficiently under extreme environmental conditions. These factors are driving the adoption of modular cooling units, liquid-based systems, and customized thermal management architectures designed for harsh or space-constrained environments, reinforcing long-term growth in the data center thermal management market.

This report is a detailed and comprehensive analysis for global Data Center Thermal Management market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share

estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Data Center Thermal Management market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Data Center Thermal Management market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Data Center Thermal Management market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Data Center Thermal Management market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Data Center Thermal Management

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Thermal Management 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 Vertiv, Stulz, Schneider Electric, Rittal, Envicool, Johnson Controls, Mitsubishi Electric, Trane, Carrier, Shenling, etc.

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

### **Market segmentation**

Data Center Thermal Management market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid Cooling

Air Cooling

#### Market segment by Equipment

Precision Air Conditioning System

Coolant Distribution Unit

Air Handling Unit

Other

#### Market segment by Power

High Power

Low Power

#### Market segment by Application

Small and Medium-Sized Data Center

Large Data Center

Hyper-Large Data Center

#### Market segment by players, this report covers

Vertiv

Stulz

Schneider Electric

Rittal

Envicool

Johnson Controls

Mitsubishi Electric

Trane

Carrier

Shenling

YMK

Huawei

Boyd

Canatal

iTeaq

Airsys

Hairf

Market segment by regions, regional analysis covers  
North America (United States, Canada and Mexico)  
Europe (Germany, France, UK, Russia, Italy and Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)  
South America (Brazil, Rest of South America)  
Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

*Global Data Center Thermal Management Market 2026 by Company, Regions, Type and Application, Forecast to 2032*

Chapter 1, to describe Data Center Thermal Management product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Data Center Thermal Management, with revenue, gross margin, and global market share of Data Center Thermal Management from 2021 to 2026.

Chapter 3, the Data Center Thermal Management competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Data Center Thermal Management market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Data Center Thermal Management.

Chapter 13, to describe Data Center Thermal Management research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Data Center Thermal Management by Type

1.3.1 Overview: Global Data Center Thermal Management Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Data Center Thermal Management Consumption Value Market Share by Type in 2025

1.3.3 Liquid Cooling

1.3.4 Air Cooling

1.4 Classification of Data Center Thermal Management by Equipment

1.4.1 Overview: Global Data Center Thermal Management Market Size by Equipment: 2021 Versus 2025 Versus 2032

1.4.2 Global Data Center Thermal Management Consumption Value Market Share by Equipment in 2025

1.4.3 Precision Air Conditioning System

1.4.4 Coolant Distribution Unit

1.4.5 Air Handling Unit

1.4.6 Other

1.5 Classification of Data Center Thermal Management by Power

1.5.1 Overview: Global Data Center Thermal Management Market Size by Power: 2021 Versus 2025 Versus 2032

1.5.2 Global Data Center Thermal Management Consumption Value Market Share by Power in 2025

1.5.3 High Power

1.5.4 Low Power

1.6 Global Data Center Thermal Management Market by Application

1.6.1 Overview: Global Data Center Thermal Management Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Small and Medium-Sized Data Center

1.6.3 Large Data Center

1.6.4 Hyper-Large Data Center

1.7 Global Data Center Thermal Management Market Size & Forecast

1.8 Global Data Center Thermal Management Market Size and Forecast by Region

1.8.1 Global Data Center Thermal Management Market Size by Region: 2021 VS 2025 VS 2032

- 1.8.2 Global Data Center Thermal Management Market Size by Region, (2021-2032)
- 1.8.3 North America Data Center Thermal Management Market Size and Prospect (2021-2032)
- 1.8.4 Europe Data Center Thermal Management Market Size and Prospect (2021-2032)
- 1.8.5 Asia-Pacific Data Center Thermal Management Market Size and Prospect (2021-2032)
- 1.8.6 South America Data Center Thermal Management Market Size and Prospect (2021-2032)
- 1.8.7 Middle East & Africa Data Center Thermal Management Market Size and Prospect (2021-2032)

## **2 COMPANY PROFILES**

### 2.1 Vertiv

- 2.1.1 Vertiv Details
- 2.1.2 Vertiv Major Business
- 2.1.3 Vertiv Data Center Thermal Management Product and Solutions
- 2.1.4 Vertiv Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Vertiv Recent Developments and Future Plans

### 2.2 Stulz

- 2.2.1 Stulz Details
- 2.2.2 Stulz Major Business
- 2.2.3 Stulz Data Center Thermal Management Product and Solutions
- 2.2.4 Stulz Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Stulz Recent Developments and Future Plans

### 2.3 Schneider Electric

- 2.3.1 Schneider Electric Details
- 2.3.2 Schneider Electric Major Business
- 2.3.3 Schneider Electric Data Center Thermal Management Product and Solutions
- 2.3.4 Schneider Electric Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Schneider Electric Recent Developments and Future Plans

### 2.4 Rittal

- 2.4.1 Rittal Details
- 2.4.2 Rittal Major Business
- 2.4.3 Rittal Data Center Thermal Management Product and Solutions

2.4.4 Rittal Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Rittal Recent Developments and Future Plans

2.5 Envicool

2.5.1 Envicool Details

2.5.2 Envicool Major Business

2.5.3 Envicool Data Center Thermal Management Product and Solutions

2.5.4 Envicool Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Envicool Recent Developments and Future Plans

2.6 Johnson Controls

2.6.1 Johnson Controls Details

2.6.2 Johnson Controls Major Business

2.6.3 Johnson Controls Data Center Thermal Management Product and Solutions

2.6.4 Johnson Controls Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Johnson Controls Recent Developments and Future Plans

2.7 Mitsubishi Electric

2.7.1 Mitsubishi Electric Details

2.7.2 Mitsubishi Electric Major Business

2.7.3 Mitsubishi Electric Data Center Thermal Management Product and Solutions

2.7.4 Mitsubishi Electric Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Mitsubishi Electric Recent Developments and Future Plans

2.8 Trane

2.8.1 Trane Details

2.8.2 Trane Major Business

2.8.3 Trane Data Center Thermal Management Product and Solutions

2.8.4 Trane Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Trane Recent Developments and Future Plans

2.9 Carrier

2.9.1 Carrier Details

2.9.2 Carrier Major Business

2.9.3 Carrier Data Center Thermal Management Product and Solutions

2.9.4 Carrier Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Carrier Recent Developments and Future Plans

2.10 Shenling

- 2.10.1 Shenling Details
- 2.10.2 Shenling Major Business
- 2.10.3 Shenling Data Center Thermal Management Product and Solutions
- 2.10.4 Shenling Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 Shenling Recent Developments and Future Plans
- 2.11 YMK
  - 2.11.1 YMK Details
  - 2.11.2 YMK Major Business
  - 2.11.3 YMK Data Center Thermal Management Product and Solutions
  - 2.11.4 YMK Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 YMK Recent Developments and Future Plans
- 2.12 Huawei
  - 2.12.1 Huawei Details
  - 2.12.2 Huawei Major Business
  - 2.12.3 Huawei Data Center Thermal Management Product and Solutions
  - 2.12.4 Huawei Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 Huawei Recent Developments and Future Plans
- 2.13 Boyd
  - 2.13.1 Boyd Details
  - 2.13.2 Boyd Major Business
  - 2.13.3 Boyd Data Center Thermal Management Product and Solutions
  - 2.13.4 Boyd Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Boyd Recent Developments and Future Plans
- 2.14 Canatal
  - 2.14.1 Canatal Details
  - 2.14.2 Canatal Major Business
  - 2.14.3 Canatal Data Center Thermal Management Product and Solutions
  - 2.14.4 Canatal Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)
  - 2.14.5 Canatal Recent Developments and Future Plans
- 2.15 iTeq
  - 2.15.1 iTeq Details
  - 2.15.2 iTeq Major Business
  - 2.15.3 iTeq Data Center Thermal Management Product and Solutions
  - 2.15.4 iTeq Data Center Thermal Management Revenue, Gross Margin and Market

Share (2021-2026)

2.15.5 iTeaq Recent Developments and Future Plans

2.16 Airsys

2.16.1 Airsys Details

2.16.2 Airsys Major Business

2.16.3 Airsys Data Center Thermal Management Product and Solutions

2.16.4 Airsys Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Airsys Recent Developments and Future Plans

2.17 Hairf

2.17.1 Hairf Details

2.17.2 Hairf Major Business

2.17.3 Hairf Data Center Thermal Management Product and Solutions

2.17.4 Hairf Data Center Thermal Management Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Hairf Recent Developments and Future Plans

### **3 MARKET COMPETITION, BY PLAYERS**

3.1 Global Data Center Thermal Management Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Data Center Thermal Management by Company Revenue

3.2.2 Top 3 Data Center Thermal Management Players Market Share in 2025

3.2.3 Top 6 Data Center Thermal Management Players Market Share in 2025

3.3 Data Center Thermal Management Market: Overall Company Footprint Analysis

3.3.1 Data Center Thermal Management Market: Region Footprint

3.3.2 Data Center Thermal Management Market: Company Product Type Footprint

3.3.3 Data Center Thermal Management Market: Company Product Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

### **4 MARKET SIZE SEGMENT BY TYPE**

4.1 Global Data Center Thermal Management Consumption Value and Market Share by Type (2021-2026)

4.2 Global Data Center Thermal Management Market Forecast by Type (2027-2032)

## **5 MARKET SIZE SEGMENT BY APPLICATION**

5.1 Global Data Center Thermal Management Consumption Value Market Share by Application (2021-2026)

5.2 Global Data Center Thermal Management Market Forecast by Application (2027-2032)

## **6 NORTH AMERICA**

6.1 North America Data Center Thermal Management Consumption Value by Type (2021-2032)

6.2 North America Data Center Thermal Management Market Size by Application (2021-2032)

6.3 North America Data Center Thermal Management Market Size by Country

6.3.1 North America Data Center Thermal Management Consumption Value by Country (2021-2032)

6.3.2 United States Data Center Thermal Management Market Size and Forecast (2021-2032)

6.3.3 Canada Data Center Thermal Management Market Size and Forecast (2021-2032)

6.3.4 Mexico Data Center Thermal Management Market Size and Forecast (2021-2032)

## **7 EUROPE**

7.1 Europe Data Center Thermal Management Consumption Value by Type (2021-2032)

7.2 Europe Data Center Thermal Management Consumption Value by Application (2021-2032)

7.3 Europe Data Center Thermal Management Market Size by Country

7.3.1 Europe Data Center Thermal Management Consumption Value by Country (2021-2032)

7.3.2 Germany Data Center Thermal Management Market Size and Forecast (2021-2032)

7.3.3 France Data Center Thermal Management Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Data Center Thermal Management Market Size and Forecast (2021-2032)

7.3.5 Russia Data Center Thermal Management Market Size and Forecast

(2021-2032)

7.3.6 Italy Data Center Thermal Management Market Size and Forecast (2021-2032)

## **8 ASIA-PACIFIC**

8.1 Asia-Pacific Data Center Thermal Management Consumption Value by Type  
(2021-2032)

8.2 Asia-Pacific Data Center Thermal Management Consumption Value by Application  
(2021-2032)

8.3 Asia-Pacific Data Center Thermal Management Market Size by Region

8.3.1 Asia-Pacific Data Center Thermal Management Consumption Value by Region  
(2021-2032)

8.3.2 China Data Center Thermal Management Market Size and Forecast (2021-2032)

8.3.3 Japan Data Center Thermal Management Market Size and Forecast (2021-2032)

8.3.4 South Korea Data Center Thermal Management Market Size and Forecast  
(2021-2032)

8.3.5 India Data Center Thermal Management Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Data Center Thermal Management Market Size and Forecast  
(2021-2032)

8.3.7 Australia Data Center Thermal Management Market Size and Forecast  
(2021-2032)

## **9 SOUTH AMERICA**

9.1 South America Data Center Thermal Management Consumption Value by Type  
(2021-2032)

9.2 South America Data Center Thermal Management Consumption Value by  
Application (2021-2032)

9.3 South America Data Center Thermal Management Market Size by Country

9.3.1 South America Data Center Thermal Management Consumption Value by  
Country (2021-2032)

9.3.2 Brazil Data Center Thermal Management Market Size and Forecast (2021-2032)

9.3.3 Argentina Data Center Thermal Management Market Size and Forecast  
(2021-2032)

## **10 MIDDLE EAST & AFRICA**

10.1 Middle East & Africa Data Center Thermal Management Consumption Value by  
Type (2021-2032)

10.2 Middle East & Africa Data Center Thermal Management Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Data Center Thermal Management Market Size by Country

10.3.1 Middle East & Africa Data Center Thermal Management Consumption Value by Country (2021-2032)

10.3.2 Turkey Data Center Thermal Management Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Data Center Thermal Management Market Size and Forecast (2021-2032)

10.3.4 UAE Data Center Thermal Management Market Size and Forecast (2021-2032)

## **11 MARKET DYNAMICS**

11.1 Data Center Thermal Management Market Drivers

11.2 Data Center Thermal Management Market Restraints

11.3 Data Center Thermal Management Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

## **12 INDUSTRY CHAIN ANALYSIS**

12.1 Data Center Thermal Management Industry Chain

12.2 Data Center Thermal Management Upstream Analysis

12.3 Data Center Thermal Management Midstream Analysis

12.4 Data Center Thermal Management Downstream Analysis

## **13 RESEARCH FINDINGS AND CONCLUSION**

## **14 APPENDIX**

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Data Center Thermal Management Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Data Center Thermal Management Consumption Value by Equipment, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Data Center Thermal Management Consumption Value by Power, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Data Center Thermal Management Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Global Data Center Thermal Management Consumption Value by Region (2021-2026) & (USD Million)
- Table 6. Global Data Center Thermal Management Consumption Value by Region (2027-2032) & (USD Million)
- Table 7. Vertiv Company Information, Head Office, and Major Competitors
- Table 8. Vertiv Major Business
- Table 9. Vertiv Data Center Thermal Management Product and Solutions
- Table 10. Vertiv Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 11. Vertiv Recent Developments and Future Plans
- Table 12. Stulz Company Information, Head Office, and Major Competitors
- Table 13. Stulz Major Business
- Table 14. Stulz Data Center Thermal Management Product and Solutions
- Table 15. Stulz Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 16. Stulz Recent Developments and Future Plans
- Table 17. Schneider Electric Company Information, Head Office, and Major Competitors
- Table 18. Schneider Electric Major Business
- Table 19. Schneider Electric Data Center Thermal Management Product and Solutions
- Table 20. Schneider Electric Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 21. Rittal Company Information, Head Office, and Major Competitors
- Table 22. Rittal Major Business
- Table 23. Rittal Data Center Thermal Management Product and Solutions
- Table 24. Rittal Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 25. Rittal Recent Developments and Future Plans

- Table 26. Envicool Company Information, Head Office, and Major Competitors
- Table 27. Envicool Major Business
- Table 28. Envicool Data Center Thermal Management Product and Solutions
- Table 29. Envicool Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 30. Envicool Recent Developments and Future Plans
- Table 31. Johnson Controls Company Information, Head Office, and Major Competitors
- Table 32. Johnson Controls Major Business
- Table 33. Johnson Controls Data Center Thermal Management Product and Solutions
- Table 34. Johnson Controls Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 35. Johnson Controls Recent Developments and Future Plans
- Table 36. Mitsubishi Electric Company Information, Head Office, and Major Competitors
- Table 37. Mitsubishi Electric Major Business
- Table 38. Mitsubishi Electric Data Center Thermal Management Product and Solutions
- Table 39. Mitsubishi Electric Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 40. Mitsubishi Electric Recent Developments and Future Plans
- Table 41. Trane Company Information, Head Office, and Major Competitors
- Table 42. Trane Major Business
- Table 43. Trane Data Center Thermal Management Product and Solutions
- Table 44. Trane Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 45. Trane Recent Developments and Future Plans
- Table 46. Carrier Company Information, Head Office, and Major Competitors
- Table 47. Carrier Major Business
- Table 48. Carrier Data Center Thermal Management Product and Solutions
- Table 49. Carrier Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 50. Carrier Recent Developments and Future Plans
- Table 51. Shenling Company Information, Head Office, and Major Competitors
- Table 52. Shenling Major Business
- Table 53. Shenling Data Center Thermal Management Product and Solutions
- Table 54. Shenling Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 55. Shenling Recent Developments and Future Plans
- Table 56. YMK Company Information, Head Office, and Major Competitors
- Table 57. YMK Major Business
- Table 58. YMK Data Center Thermal Management Product and Solutions

Table 59. YMK Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. YMK Recent Developments and Future Plans

Table 61. Huawei Company Information, Head Office, and Major Competitors

Table 62. Huawei Major Business

Table 63. Huawei Data Center Thermal Management Product and Solutions

Table 64. Huawei Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Huawei Recent Developments and Future Plans

Table 66. Boyd Company Information, Head Office, and Major Competitors

Table 67. Boyd Major Business

Table 68. Boyd Data Center Thermal Management Product and Solutions

Table 69. Boyd Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Boyd Recent Developments and Future Plans

Table 71. Canatal Company Information, Head Office, and Major Competitors

Table 72. Canatal Major Business

Table 73. Canatal Data Center Thermal Management Product and Solutions

Table 74. Canatal Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. Canatal Recent Developments and Future Plans

Table 76. iTeaq Company Information, Head Office, and Major Competitors

Table 77. iTeaq Major Business

Table 78. iTeaq Data Center Thermal Management Product and Solutions

Table 79. iTeaq Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. iTeaq Recent Developments and Future Plans

Table 81. Airsys Company Information, Head Office, and Major Competitors

Table 82. Airsys Major Business

Table 83. Airsys Data Center Thermal Management Product and Solutions

Table 84. Airsys Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Airsys Recent Developments and Future Plans

Table 86. Hairf Company Information, Head Office, and Major Competitors

Table 87. Hairf Major Business

Table 88. Hairf Data Center Thermal Management Product and Solutions

Table 89. Hairf Data Center Thermal Management Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Hairf Recent Developments and Future Plans

Table 91. Global Data Center Thermal Management Revenue (USD Million) by Players (2021-2026)

Table 92. Global Data Center Thermal Management Revenue Share by Players (2021-2026)

Table 93. Breakdown of Data Center Thermal Management by Company Type (Tier 1, Tier 2, and Tier 3)

Table 94. Market Position of Players in Data Center Thermal Management, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 95. Head Office of Key Data Center Thermal Management Players

Table 96. Data Center Thermal Management Market: Company Product Type Footprint

Table 97. Data Center Thermal Management Market: Company Product Application Footprint

Table 98. Data Center Thermal Management New Market Entrants and Barriers to Market Entry

Table 99. Data Center Thermal Management Mergers, Acquisition, Agreements, and Collaborations

Table 100. Global Data Center Thermal Management Consumption Value (USD Million) by Type (2021-2026)

Table 101. Global Data Center Thermal Management Consumption Value Share by Type (2021-2026)

Table 102. Global Data Center Thermal Management Consumption Value Forecast by Type (2027-2032)

Table 103. Global Data Center Thermal Management Consumption Value by Application (2021-2026)

Table 104. Global Data Center Thermal Management Consumption Value Forecast by Application (2027-2032)

Table 105. North America Data Center Thermal Management Consumption Value by Type (2021-2026) & (USD Million)

Table 106. North America Data Center Thermal Management Consumption Value by Type (2027-2032) & (USD Million)

Table 107. North America Data Center Thermal Management Consumption Value by Application (2021-2026) & (USD Million)

Table 108. North America Data Center Thermal Management Consumption Value by Application (2027-2032) & (USD Million)

Table 109. North America Data Center Thermal Management Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America Data Center Thermal Management Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe Data Center Thermal Management Consumption Value by Type

(2021-2026) & (USD Million)

Table 112. Europe Data Center Thermal Management Consumption Value by Type (2027-2032) & (USD Million)

Table 113. Europe Data Center Thermal Management Consumption Value by Application (2021-2026) & (USD Million)

Table 114. Europe Data Center Thermal Management Consumption Value by Application (2027-2032) & (USD Million)

Table 115. Europe Data Center Thermal Management Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Europe Data Center Thermal Management Consumption Value by Country (2027-2032) & (USD Million)

Table 117. Asia-Pacific Data Center Thermal Management Consumption Value by Type (2021-2026) & (USD Million)

Table 118. Asia-Pacific Data Center Thermal Management Consumption Value by Type (2027-2032) & (USD Million)

Table 119. Asia-Pacific Data Center Thermal Management Consumption Value by Application (2021-2026) & (USD Million)

Table 120. Asia-Pacific Data Center Thermal Management Consumption Value by Application (2027-2032) & (USD Million)

Table 121. Asia-Pacific Data Center Thermal Management Consumption Value by Region (2021-2026) & (USD Million)

Table 122. Asia-Pacific Data Center Thermal Management Consumption Value by Region (2027-2032) & (USD Million)

Table 123. South America Data Center Thermal Management Consumption Value by Type (2021-2026) & (USD Million)

Table 124. South America Data Center Thermal Management Consumption Value by Type (2027-2032) & (USD Million)

Table 125. South America Data Center Thermal Management Consumption Value by Application (2021-2026) & (USD Million)

Table 126. South America Data Center Thermal Management Consumption Value by Application (2027-2032) & (USD Million)

Table 127. South America Data Center Thermal Management Consumption Value by Country (2021-2026) & (USD Million)

Table 128. South America Data Center Thermal Management Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Middle East & Africa Data Center Thermal Management Consumption Value by Type (2021-2026) & (USD Million)

Table 130. Middle East & Africa Data Center Thermal Management Consumption Value by Type (2027-2032) & (USD Million)

Table 131. Middle East & Africa Data Center Thermal Management Consumption Value by Application (2021-2026) & (USD Million)

Table 132. Middle East & Africa Data Center Thermal Management Consumption Value by Application (2027-2032) & (USD Million)

Table 133. Middle East & Africa Data Center Thermal Management Consumption Value by Country (2021-2026) & (USD Million)

Table 134. Middle East & Africa Data Center Thermal Management Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Global Key Players of Data Center Thermal Management Upstream (Raw Materials)

Table 136. Global Data Center Thermal Management Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Data Center Thermal Management Picture

Figure 2. Global Data Center Thermal Management Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Data Center Thermal Management Consumption Value Market Share by Type in 2025

Figure 4. Liquid Cooling

Figure 5. Air Cooling

Figure 6. Global Data Center Thermal Management Consumption Value by Equipment, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Data Center Thermal Management Consumption Value Market Share by Equipment in 2025

Figure 8. Precision Air Conditioning System

Figure 9. Coolant Distribution Unit

Figure 10. Air Handling Unit

Figure 11. Other

Figure 12. Global Data Center Thermal Management Consumption Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Data Center Thermal Management Consumption Value Market Share by Power in 2025

Figure 14. High Power

Figure 15. Low Power

Figure 16. Global Data Center Thermal Management Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Data Center Thermal Management Consumption Value Market Share by Application in 2025

Figure 18. Small and Medium-Sized Data Center Picture

Figure 19. Large Data Center Picture

Figure 20. Hyper-Large Data Center Picture

Figure 21. Global Data Center Thermal Management Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Data Center Thermal Management Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Market Data Center Thermal Management Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 24. Global Data Center Thermal Management Consumption Value Market Share

by Region (2021-2032)

Figure 25. Global Data Center Thermal Management Consumption Value Market Share by Region in 2025

Figure 26. North America Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 27. Europe Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 29. South America Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 31. Company Three Recent Developments and Future Plans

Figure 32. Global Data Center Thermal Management Revenue Share by Players in 2025

Figure 33. Data Center Thermal Management Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 34. Market Share of Data Center Thermal Management by Player Revenue in 2025

Figure 35. Top 3 Data Center Thermal Management Players Market Share in 2025

Figure 36. Top 6 Data Center Thermal Management Players Market Share in 2025

Figure 37. Global Data Center Thermal Management Consumption Value Share by Type (2021-2026)

Figure 38. Global Data Center Thermal Management Market Share Forecast by Type (2027-2032)

Figure 39. Global Data Center Thermal Management Consumption Value Share by Application (2021-2026)

Figure 40. Global Data Center Thermal Management Market Share Forecast by Application (2027-2032)

Figure 41. North America Data Center Thermal Management Consumption Value Market Share by Type (2021-2032)

Figure 42. North America Data Center Thermal Management Consumption Value Market Share by Application (2021-2032)

Figure 43. North America Data Center Thermal Management Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Data Center Thermal Management Consumption Value (2021-2032)

& (USD Million)

Figure 46. Mexico Data Center Thermal Management Consumption Value (2021-2032)

& (USD Million)

Figure 47. Europe Data Center Thermal Management Consumption Value Market Share by Type (2021-2032)

Figure 48. Europe Data Center Thermal Management Consumption Value Market Share by Application (2021-2032)

Figure 49. Europe Data Center Thermal Management Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 51. France Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Data Center Thermal Management Consumption Value Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Data Center Thermal Management Consumption Value Market Share by Application (2021-2032)

Figure 57. Asia-Pacific Data Center Thermal Management Consumption Value Market Share by Region (2021-2032)

Figure 58. China Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 59. Japan Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 60. South Korea Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 61. India Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 62. Southeast Asia Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 63. Australia Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 64. South America Data Center Thermal Management Consumption Value Market Share by Type (2021-2032)

Figure 65. South America Data Center Thermal Management Consumption Value Market Share by Application (2021-2032)

Figure 66. South America Data Center Thermal Management Consumption Value Market Share by Country (2021-2032)

Figure 67. Brazil Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 68. Argentina Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 69. Middle East & Africa Data Center Thermal Management Consumption Value Market Share by Type (2021-2032)

Figure 70. Middle East & Africa Data Center Thermal Management Consumption Value Market Share by Application (2021-2032)

Figure 71. Middle East & Africa Data Center Thermal Management Consumption Value Market Share by Country (2021-2032)

Figure 72. Turkey Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 73. Saudi Arabia Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 74. UAE Data Center Thermal Management Consumption Value (2021-2032) & (USD Million)

Figure 75. Data Center Thermal Management Market Drivers

Figure 76. Data Center Thermal Management Market Restraints

Figure 77. Data Center Thermal Management Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Data Center Thermal Management Industrial Chain

Figure 80. Methodology

Figure 81. Research Process and Data Source

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