

Global Data Center Cooling Management Software 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 Cooling Management Software market size was valued at US\$ 652 million in 2025 and is forecast to a readjusted size of US\$ 1074 million by 2032 with a CAGR of 7.4% during review period.

Data Center Cooling Management Software is a specialized system designed for the unified monitoring, scheduling, optimization, and control of data center cooling systems. By collecting data from chillers, CRAC/CRAH units, cooling towers, Coolant Distribution Units (CDUs), fan walls, and sensor networks, it enables real-time visual management and dynamic, optimized control of cooling resources. Typically deeply integrated with DCIM, BMS, and liquid cooling control systems, the software supports functions such as cooling capacity allocation, cooling load balancing, energy consumption optimization, equipment status monitoring, and fault early warning. Its core objective is to lower PUE (Power Usage Effectiveness) and enhance overall cooling efficiency while ensuring stable equipment operation; it is particularly well-suited for AI data centers, high-performance computing (HPC) centers, and hyperscale cloud computing infrastructure.

Driven by the rapid growth of AI computing power, the high heat density of GPU clusters, the large-scale adoption of liquid cooling technology, and the construction of green, low-carbon data centers, the industry is currently upgrading from traditional cooling equipment monitoring to intelligent cooling optimization platforms. Key opportunities lie in AI-driven cooling strategy optimization, unified management of hybrid air-cooled and liquid-cooled systems, precision cooling control at the rack level, intelligent scheduling of liquid cooling CDUs, and digital twin-based cooling simulation. Core industry competitiveness is defined by capabilities in multi-system data integration,

cooling load modeling, real-time control algorithms, deep integration with BMS/DCIM and liquid cooling equipment, and energy efficiency optimization. Current industry pain points include inconsistent communication protocols across multi-vendor equipment, complex dynamic responses in cooling systems, difficulty in precisely controlling localized hotspots, a lack of unified control standards for liquid cooling systems, decision-making inaccuracies caused by real-time data latency, and a heavy reliance on operational experience. Solutions involve building unified cooling control platforms, introducing AI predictive control and reinforcement learning algorithms, deploying high-density sensor networks, establishing digital twin cooling models, and promoting standardized interface protocols to achieve cross-system collaborative optimization. Overall, the industry is evolving from passive monitoring to active, intelligent control, establishing itself as a critical foundational software component for energy conservation and consumption reduction in AI data centers.

This report is a detailed and comprehensive analysis for global Data Center Cooling Management Software 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 Cooling Management Software market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Data Center Cooling Management Software 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 Cooling Management Software

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 Cooling 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, Vertiv, Siemens AG, ABB Ltd., Johnson Controls, Honeywell, IBM, Microsoft, Google, AWS, etc.

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

Market segmentation

Data Center Cooling Management Software 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

Passive Monitoring Software

Rule-Driven Control Software

Model Predictive Control Software

AI-Based Adaptive Optimization Software

Digital Twin Simulation Software

Others

Market segment by PUE Optimizatio

PUE Optimization: 5%?10%

PUE Optimization: 10%?20%

PUE Optimization: 20%?35%

Market segment by Application

AI Data Centers

Cloud Computing Data Centers

Edge Data Centers

Supercomputing Centers

Others

Market segment by players, this report covers

Schneider Electric

Vertiv

Siemens AG

ABB Ltd.

Johnson Controls

Honeywell

IBM

Microsoft

Google

AWS

Huawei

Alibaba Cloud

Tencent Cloud

Equinix

NTT Data Centers

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:

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

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

Chapter 3, the Data Center Cooling Management Software 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 Cooling Management Software 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 Cooling Management Software.

Chapter 13, to describe Data Center Cooling Management Software 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 Cooling Management Software by Type

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

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

1.3.3 Passive Monitoring Software

1.3.4 Rule-Driven Control Software

1.3.5 Model Predictive Control Software

1.3.6 AI-Based Adaptive Optimization Software

1.3.7 Digital Twin Simulation Software

1.3.8 Others

1.4 Classification of Data Center Cooling Management Software by PUE Optimizatio

1.4.1 Overview: Global Data Center Cooling Management Software Market Size by PUE Optimizatio: 2021 Versus 2025 Versus 2032

1.4.2 Global Data Center Cooling Management Software Consumption Value Market Share by PUE Optimizatio in 2025

1.4.3 PUE Optimization: 5%?10%

1.4.4 PUE Optimization: 10%?20%

1.4.5 PUE Optimization: 20%?35%

1.5 Global Data Center Cooling Management Software Market by Application

1.5.1 Overview: Global Data Center Cooling Management Software Market Size by Application: 2021 Versus 2025 Versus 2032

1.5.2 AI Data Centers

1.5.3 Cloud Computing Data Centers

1.5.4 Edge Data Centers

1.5.5 Supercomputing Centers

1.5.6 Others

1.6 Global Data Center Cooling Management Software Market Size & Forecast

1.7 Global Data Center Cooling Management Software Market Size and Forecast by Region

1.7.1 Global Data Center Cooling Management Software Market Size by Region: 2021 VS 2025 VS 2032

1.7.2 Global Data Center Cooling Management Software Market Size by Region,

(2021-2032)

1.7.3 North America Data Center Cooling Management Software Market Size and Prospect (2021-2032)

1.7.4 Europe Data Center Cooling Management Software Market Size and Prospect (2021-2032)

1.7.5 Asia-Pacific Data Center Cooling Management Software Market Size and Prospect (2021-2032)

1.7.6 South America Data Center Cooling Management Software Market Size and Prospect (2021-2032)

1.7.7 Middle East & Africa Data Center Cooling Management Software Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Schneider Electric

2.1.1 Schneider Electric Details

2.1.2 Schneider Electric Major Business

2.1.3 Schneider Electric Data Center Cooling Management Software Product and Solutions

2.1.4 Schneider Electric Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Schneider Electric Recent Developments and Future Plans

2.2 Vertiv

2.2.1 Vertiv Details

2.2.2 Vertiv Major Business

2.2.3 Vertiv Data Center Cooling Management Software Product and Solutions

2.2.4 Vertiv Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Vertiv Recent Developments and Future Plans

2.3 Siemens AG

2.3.1 Siemens AG Details

2.3.2 Siemens AG Major Business

2.3.3 Siemens AG Data Center Cooling Management Software Product and Solutions

2.3.4 Siemens AG Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Siemens AG Recent Developments and Future Plans

2.4 ABB Ltd.

2.4.1 ABB Ltd. Details

2.4.2 ABB Ltd. Major Business

- 2.4.3 ABB Ltd. Data Center Cooling Management Software Product and Solutions
- 2.4.4 ABB Ltd. Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 ABB Ltd. Recent Developments and Future Plans
- 2.5 Johnson Controls
 - 2.5.1 Johnson Controls Details
 - 2.5.2 Johnson Controls Major Business
 - 2.5.3 Johnson Controls Data Center Cooling Management Software Product and Solutions
 - 2.5.4 Johnson Controls Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Johnson Controls Recent Developments and Future Plans
- 2.6 Honeywell
 - 2.6.1 Honeywell Details
 - 2.6.2 Honeywell Major Business
 - 2.6.3 Honeywell Data Center Cooling Management Software Product and Solutions
 - 2.6.4 Honeywell Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Honeywell Recent Developments and Future Plans
- 2.7 IBM
 - 2.7.1 IBM Details
 - 2.7.2 IBM Major Business
 - 2.7.3 IBM Data Center Cooling Management Software Product and Solutions
 - 2.7.4 IBM Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 IBM Recent Developments and Future Plans
- 2.8 Microsoft
 - 2.8.1 Microsoft Details
 - 2.8.2 Microsoft Major Business
 - 2.8.3 Microsoft Data Center Cooling Management Software Product and Solutions
 - 2.8.4 Microsoft Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Microsoft Recent Developments and Future Plans
- 2.9 Google
 - 2.9.1 Google Details
 - 2.9.2 Google Major Business
 - 2.9.3 Google Data Center Cooling Management Software Product and Solutions
 - 2.9.4 Google Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Google Recent Developments and Future Plans

2.10 AWS

2.10.1 AWS Details

2.10.2 AWS Major Business

2.10.3 AWS Data Center Cooling Management Software Product and Solutions

2.10.4 AWS Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 AWS Recent Developments and Future Plans

2.11 Huawei

2.11.1 Huawei Details

2.11.2 Huawei Major Business

2.11.3 Huawei Data Center Cooling Management Software Product and Solutions

2.11.4 Huawei Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Huawei Recent Developments and Future Plans

2.12 Alibaba Cloud

2.12.1 Alibaba Cloud Details

2.12.2 Alibaba Cloud Major Business

2.12.3 Alibaba Cloud Data Center Cooling Management Software Product and Solutions

2.12.4 Alibaba Cloud Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Alibaba Cloud Recent Developments and Future Plans

2.13 Tencent Cloud

2.13.1 Tencent Cloud Details

2.13.2 Tencent Cloud Major Business

2.13.3 Tencent Cloud Data Center Cooling Management Software Product and Solutions

2.13.4 Tencent Cloud Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Tencent Cloud Recent Developments and Future Plans

2.14 Equinix

2.14.1 Equinix Details

2.14.2 Equinix Major Business

2.14.3 Equinix Data Center Cooling Management Software Product and Solutions

2.14.4 Equinix Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Equinix Recent Developments and Future Plans

2.15 NTT Data Centers

- 2.15.1 NTT Data Centers Details
- 2.15.2 NTT Data Centers Major Business
- 2.15.3 NTT Data Centers Data Center Cooling Management Software Product and Solutions
- 2.15.4 NTT Data Centers Data Center Cooling Management Software Revenue, Gross Margin and Market Share (2021-2026)
- 2.15.5 NTT Data Centers Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Data Center Cooling Management Software Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of Data Center Cooling Management Software by Company Revenue
 - 3.2.2 Top 3 Data Center Cooling Management Software Players Market Share in 2025
 - 3.2.3 Top 6 Data Center Cooling Management Software Players Market Share in 2025
- 3.3 Data Center Cooling Management Software Market: Overall Company Footprint Analysis
 - 3.3.1 Data Center Cooling Management Software Market: Region Footprint
 - 3.3.2 Data Center Cooling Management Software Market: Company Product Type Footprint
 - 3.3.3 Data Center Cooling Management Software 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 Cooling Management Software Consumption Value and Market Share by Type (2021-2026)
- 4.2 Global Data Center Cooling Management Software Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Data Center Cooling Management Software Consumption Value Market Share by Application (2021-2026)
- 5.2 Global Data Center Cooling Management Software Market Forecast by Application

(2027-2032)

6 NORTH AMERICA

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

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

6.3 North America Data Center Cooling Management Software Market Size by Country

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

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

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

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

7 EUROPE

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

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

7.3 Europe Data Center Cooling Management Software Market Size by Country

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

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

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

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

7.3.5 Russia Data Center Cooling Management Software Market Size and Forecast (2021-2032)

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

8 ASIA-PACIFIC

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

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

8.3 Asia-Pacific Data Center Cooling Management Software Market Size by Region

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

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

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

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

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

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

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

9 SOUTH AMERICA

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

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

9.3 South America Data Center Cooling Management Software Market Size by Country

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

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

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

10 MIDDLE EAST & AFRICA

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

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

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

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

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

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

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

11 MARKET DYNAMICS

11.1 Data Center Cooling Management Software Market Drivers

11.2 Data Center Cooling Management Software Market Restraints

11.3 Data Center Cooling Management Software 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 Cooling Management Software Industry Chain

12.2 Data Center Cooling Management Software Upstream Analysis

12.3 Data Center Cooling Management Software Midstream Analysis

12.4 Data Center Cooling Management Software 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 Cooling Management Software Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Data Center Cooling Management Software Consumption Value by PUE Optimizatio, (USD Million), 2021 & 2025 & 2032

Table 3. Global Data Center Cooling Management Software Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Global Data Center Cooling Management Software Consumption Value by Region (2021-2026) & (USD Million)

Table 5. Global Data Center Cooling Management Software Consumption Value by Region (2027-2032) & (USD Million)

Table 6. Schneider Electric Company Information, Head Office, and Major Competitors

Table 7. Schneider Electric Major Business

Table 8. Schneider Electric Data Center Cooling Management Software Product and Solutions

Table 9. Schneider Electric Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Schneider Electric Recent Developments and Future Plans

Table 11. Vertiv Company Information, Head Office, and Major Competitors

Table 12. Vertiv Major Business

Table 13. Vertiv Data Center Cooling Management Software Product and Solutions

Table 14. Vertiv Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Vertiv Recent Developments and Future Plans

Table 16. Siemens AG Company Information, Head Office, and Major Competitors

Table 17. Siemens AG Major Business

Table 18. Siemens AG Data Center Cooling Management Software Product and Solutions

Table 19. Siemens AG Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. ABB Ltd. Company Information, Head Office, and Major Competitors

Table 21. ABB Ltd. Major Business

Table 22. ABB Ltd. Data Center Cooling Management Software Product and Solutions

Table 23. ABB Ltd. Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. ABB Ltd. Recent Developments and Future Plans

Table 25. Johnson Controls Company Information, Head Office, and Major Competitors
Table 26. Johnson Controls Major Business
Table 27. Johnson Controls Data Center Cooling Management Software Product and Solutions
Table 28. Johnson Controls Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Johnson Controls Recent Developments and Future Plans
Table 30. Honeywell Company Information, Head Office, and Major Competitors
Table 31. Honeywell Major Business
Table 32. Honeywell Data Center Cooling Management Software Product and Solutions
Table 33. Honeywell Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Honeywell Recent Developments and Future Plans
Table 35. IBM Company Information, Head Office, and Major Competitors
Table 36. IBM Major Business
Table 37. IBM Data Center Cooling Management Software Product and Solutions
Table 38. IBM Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. IBM Recent Developments and Future Plans
Table 40. Microsoft Company Information, Head Office, and Major Competitors
Table 41. Microsoft Major Business
Table 42. Microsoft Data Center Cooling Management Software Product and Solutions
Table 43. Microsoft Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Microsoft Recent Developments and Future Plans
Table 45. Google Company Information, Head Office, and Major Competitors
Table 46. Google Major Business
Table 47. Google Data Center Cooling Management Software Product and Solutions
Table 48. Google Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Google Recent Developments and Future Plans
Table 50. AWS Company Information, Head Office, and Major Competitors
Table 51. AWS Major Business
Table 52. AWS Data Center Cooling Management Software Product and Solutions
Table 53. AWS Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. AWS Recent Developments and Future Plans
Table 55. Huawei Company Information, Head Office, and Major Competitors
Table 56. Huawei Major Business

Table 57. Huawei Data Center Cooling Management Software Product and Solutions
Table 58. Huawei Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Huawei Recent Developments and Future Plans
Table 60. Alibaba Cloud Company Information, Head Office, and Major Competitors
Table 61. Alibaba Cloud Major Business
Table 62. Alibaba Cloud Data Center Cooling Management Software Product and Solutions
Table 63. Alibaba Cloud Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Alibaba Cloud Recent Developments and Future Plans
Table 65. Tencent Cloud Company Information, Head Office, and Major Competitors
Table 66. Tencent Cloud Major Business
Table 67. Tencent Cloud Data Center Cooling Management Software Product and Solutions
Table 68. Tencent Cloud Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 69. Tencent Cloud Recent Developments and Future Plans
Table 70. Equinix Company Information, Head Office, and Major Competitors
Table 71. Equinix Major Business
Table 72. Equinix Data Center Cooling Management Software Product and Solutions
Table 73. Equinix Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 74. Equinix Recent Developments and Future Plans
Table 75. NTT Data Centers Company Information, Head Office, and Major Competitors
Table 76. NTT Data Centers Major Business
Table 77. NTT Data Centers Data Center Cooling Management Software Product and Solutions
Table 78. NTT Data Centers Data Center Cooling Management Software Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. NTT Data Centers Recent Developments and Future Plans
Table 80. Global Data Center Cooling Management Software Revenue (USD Million) by Players (2021-2026)
Table 81. Global Data Center Cooling Management Software Revenue Share by Players (2021-2026)
Table 82. Breakdown of Data Center Cooling Management Software by Company Type (Tier 1, Tier 2, and Tier 3)
Table 83. Market Position of Players in Data Center Cooling Management Software, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 84. Head Office of Key Data Center Cooling Management Software Players

Table 85. Data Center Cooling Management Software Market: Company Product Type Footprint

Table 86. Data Center Cooling Management Software Market: Company Product Application Footprint

Table 87. Data Center Cooling Management Software New Market Entrants and Barriers to Market Entry

Table 88. Data Center Cooling Management Software Mergers, Acquisition, Agreements, and Collaborations

Table 89. Global Data Center Cooling Management Software Consumption Value (USD Million) by Type (2021-2026)

Table 90. Global Data Center Cooling Management Software Consumption Value Share by Type (2021-2026)

Table 91. Global Data Center Cooling Management Software Consumption Value Forecast by Type (2027-2032)

Table 92. Global Data Center Cooling Management Software Consumption Value by Application (2021-2026)

Table 93. Global Data Center Cooling Management Software Consumption Value Forecast by Application (2027-2032)

Table 94. North America Data Center Cooling Management Software Consumption Value by Type (2021-2026) & (USD Million)

Table 95. North America Data Center Cooling Management Software Consumption Value by Type (2027-2032) & (USD Million)

Table 96. North America Data Center Cooling Management Software Consumption Value by Application (2021-2026) & (USD Million)

Table 97. North America Data Center Cooling Management Software Consumption Value by Application (2027-2032) & (USD Million)

Table 98. North America Data Center Cooling Management Software Consumption Value by Country (2021-2026) & (USD Million)

Table 99. North America Data Center Cooling Management Software Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Europe Data Center Cooling Management Software Consumption Value by Type (2021-2026) & (USD Million)

Table 101. Europe Data Center Cooling Management Software Consumption Value by Type (2027-2032) & (USD Million)

Table 102. Europe Data Center Cooling Management Software Consumption Value by Application (2021-2026) & (USD Million)

Table 103. Europe Data Center Cooling Management Software Consumption Value by Application (2027-2032) & (USD Million)

Table 104. Europe Data Center Cooling Management Software Consumption Value by Country (2021-2026) & (USD Million)

Table 105. Europe Data Center Cooling Management Software Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Asia-Pacific Data Center Cooling Management Software Consumption Value by Type (2021-2026) & (USD Million)

Table 107. Asia-Pacific Data Center Cooling Management Software Consumption Value by Type (2027-2032) & (USD Million)

Table 108. Asia-Pacific Data Center Cooling Management Software Consumption Value by Application (2021-2026) & (USD Million)

Table 109. Asia-Pacific Data Center Cooling Management Software Consumption Value by Application (2027-2032) & (USD Million)

Table 110. Asia-Pacific Data Center Cooling Management Software Consumption Value by Region (2021-2026) & (USD Million)

Table 111. Asia-Pacific Data Center Cooling Management Software Consumption Value by Region (2027-2032) & (USD Million)

Table 112. South America Data Center Cooling Management Software Consumption Value by Type (2021-2026) & (USD Million)

Table 113. South America Data Center Cooling Management Software Consumption Value by Type (2027-2032) & (USD Million)

Table 114. South America Data Center Cooling Management Software Consumption Value by Application (2021-2026) & (USD Million)

Table 115. South America Data Center Cooling Management Software Consumption Value by Application (2027-2032) & (USD Million)

Table 116. South America Data Center Cooling Management Software Consumption Value by Country (2021-2026) & (USD Million)

Table 117. South America Data Center Cooling Management Software Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Middle East & Africa Data Center Cooling Management Software Consumption Value by Type (2021-2026) & (USD Million)

Table 119. Middle East & Africa Data Center Cooling Management Software Consumption Value by Type (2027-2032) & (USD Million)

Table 120. Middle East & Africa Data Center Cooling Management Software Consumption Value by Application (2021-2026) & (USD Million)

Table 121. Middle East & Africa Data Center Cooling Management Software Consumption Value by Application (2027-2032) & (USD Million)

Table 122. Middle East & Africa Data Center Cooling Management Software Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Middle East & Africa Data Center Cooling Management Software

Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Global Key Players of Data Center Cooling Management Software Upstream
(Raw Materials)

Table 125. Global Data Center Cooling Management Software Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Data Center Cooling Management Software Picture
- Figure 2. Global Data Center Cooling Management Software Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Data Center Cooling Management Software Consumption Value Market Share by Type in 2025
- Figure 4. Passive Monitoring Software
- Figure 5. Rule-Driven Control Software
- Figure 6. Model Predictive Control Software
- Figure 7. AI-Based Adaptive Optimization Software
- Figure 8. Digital Twin Simulation Software
- Figure 9. Others
- Figure 10. Global Data Center Cooling Management Software Consumption Value by PUE Optimizatio, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Data Center Cooling Management Software Consumption Value Market Share by PUE Optimizatio in 2025
- Figure 12. PUE Optimization: 5%?10%
- Figure 13. PUE Optimization: 10%?20%
- Figure 14. PUE Optimization: 20%?35%
- Figure 15. Global Data Center Cooling Management Software Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Data Center Cooling Management Software Consumption Value Market Share by Application in 2025
- Figure 17. AI Data Centers Picture
- Figure 18. Cloud Computing Data Centers Picture
- Figure 19. Edge Data Centers Picture
- Figure 20. Supercomputing Centers Picture
- Figure 21. Others Picture
- Figure 22. Global Data Center Cooling Management Software Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 23. Global Data Center Cooling Management Software Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 24. Global Market Data Center Cooling Management Software Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
- Figure 25. Global Data Center Cooling Management Software Consumption Value Market Share by Region (2021-2032)

Figure 26. Global Data Center Cooling Management Software Consumption Value Market Share by Region in 2025

Figure 27. North America Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 28. Europe Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 29. Asia-Pacific Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 30. South America Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 31. Middle East & Africa Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 32. Company Three Recent Developments and Future Plans

Figure 33. Global Data Center Cooling Management Software Revenue Share by Players in 2025

Figure 34. Data Center Cooling Management Software Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 35. Market Share of Data Center Cooling Management Software by Player Revenue in 2025

Figure 36. Top 3 Data Center Cooling Management Software Players Market Share in 2025

Figure 37. Top 6 Data Center Cooling Management Software Players Market Share in 2025

Figure 38. Global Data Center Cooling Management Software Consumption Value Share by Type (2021-2026)

Figure 39. Global Data Center Cooling Management Software Market Share Forecast by Type (2027-2032)

Figure 40. Global Data Center Cooling Management Software Consumption Value Share by Application (2021-2026)

Figure 41. Global Data Center Cooling Management Software Market Share Forecast by Application (2027-2032)

Figure 42. North America Data Center Cooling Management Software Consumption Value Market Share by Type (2021-2032)

Figure 43. North America Data Center Cooling Management Software Consumption Value Market Share by Application (2021-2032)

Figure 44. North America Data Center Cooling Management Software Consumption Value Market Share by Country (2021-2032)

Figure 45. United States Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 46. Canada Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 47. Mexico Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 48. Europe Data Center Cooling Management Software Consumption Value Market Share by Type (2021-2032)

Figure 49. Europe Data Center Cooling Management Software Consumption Value Market Share by Application (2021-2032)

Figure 50. Europe Data Center Cooling Management Software Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 52. France Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Data Center Cooling Management Software Consumption Value Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Data Center Cooling Management Software Consumption Value Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Data Center Cooling Management Software Consumption Value Market Share by Region (2021-2032)

Figure 59. China Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 60. Japan Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 61. South Korea Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 62. India Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 63. Southeast Asia Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 64. Australia Data Center Cooling Management Software Consumption Value (2021-2032) & (USD Million)

Figure 65. South America Data Center Cooling Management Software Consumption

Value Market Share by Type (2021-2032)

Figure 66. South America Data Center Cooling Management Software Consumption

Value Market Share by Application (2021-2032)

Figure 67. South America Data Center Cooling Management Software Consumption

Value Market Share by Country (2021-2032)

Figure 68. Brazil Data Center Cooling Management Software Consumption Value
(2021-2032) & (USD Million)

Figure 69. Argentina Data Center Cooling Management Software Consumption Value
(2021-2032) & (USD Million)

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

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

Figure 72. Middle East & Africa Data Center Cooling Management Software
Consumption Value Market Share by Country (2021-2032)

Figure 73. Turkey Data Center Cooling Management Software Consumption Value
(2021-2032) & (USD Million)

Figure 74. Saudi Arabia Data Center Cooling Management Software Consumption
Value (2021-2032) & (USD Million)

Figure 75. UAE Data Center Cooling Management Software Consumption Value
(2021-2032) & (USD Million)

Figure 76. Data Center Cooling Management Software Market Drivers

Figure 77. Data Center Cooling Management Software Market Restraints

Figure 78. Data Center Cooling Management Software Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Data Center Cooling Management Software Industrial Chain

Figure 81. Methodology

Figure 82. Research Process and Data Source

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