

Data Center Thermal Management Market by Solution (Hardware, Services), Component, Data Center Type (Hyperscale, Enterprise, Colocation Providers), End-use Industry, Technology, Type of Cooling (Air, Liquid), and Region - Global Forecast to 2032

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Abstracts

The data center thermal management market is projected to grow from USD 13.24 billion in 2026 to USD 32.38 billion by 2032, at a CAGR of 16.1% during the forecast period. The increasing adoption of artificial intelligence (AI), generative AI, high-performance computing (HPC), and cloud computing is the primary driver of the global data center thermal management market. AI servers equipped with advanced GPUs and accelerators from companies such as NVIDIA, AMD, and Intel generate substantially higher heat loads than conventional server architectures, pushing rack power densities from traditional 5–15 kW to 50–100 kW and, in some AI deployments, beyond 150 kW per rack. These elevated thermal loads require advanced thermal management solutions that can efficiently dissipate heat while ensuring continuous system reliability and performance.

“By component, liquid cooling systems is the largest segment of the data center thermal management market, in terms of value, during the forecast period.”

Liquid cooling systems are expected to be the largest segment, by value, of the global data center thermal management market during the forecast period. This trend is driven by the increasing deployment of artificial intelligence (AI), high-performance computing (HPC), cloud computing, and large-scale analytics. These workloads require advanced thermal management solutions capable of handling much higher heat loads than traditional air-cooling methods. As server processors and AI accelerators continue to draw more power, liquid cooling systems are becoming essential investments for data

center operators aiming to enhance computing performance, ensure greater equipment reliability, and improve overall operational efficiency.

Liquid cooling systems tend to have a higher market value primarily because the associated hardware costs are elevated, and the installation process is more complex. These systems include cooling distribution units (CDUs), pumps, cold plates, manifolds, heat exchangers, piping networks, as well as monitoring systems and control software. Although these integrated setups require a larger upfront capital investment compared to conventional air cooling systems, they offer significant long-term benefits, such as lower energy consumption, improved Power Usage Effectiveness (PUE), higher rack density, and reduced day-to-day operational costs. Consequently, hyperscale cloud providers, colocation operators, and enterprise data centers are now allocating more budget toward liquid cooling infrastructure to build AI-ready facilities, often ahead of schedule.

“By data center type, the hyperscale data centers are the fastest-growing segment of the data center thermal management market during the forecast period.”

The hyperscale data center segment is expected to experience the highest CAGR in the data center thermal management market during the forecast period. This growth is primarily driven by the rapid expansion of hyperscale cloud infrastructure, along with the development of AI training clusters, high-performance computing (HPC), and large-scale colocation setups. Hyperscale cloud providers and digital infrastructure companies are increasingly constructing large data centers to accommodate the significant rise in artificial intelligence, generative AI, big data analytics, and cloud-based services. These facilities typically house thousands of high-performance servers and AI accelerators, which lead to increased power consumption and heat output. As a result, advanced thermal management is essential for maintaining optimal operating conditions and preventing service interruptions.

To achieve this, operators of hyperscale data centers are investing substantially in next-generation cooling techniques. These techniques include direct-to-chip liquid cooling, immersion cooling, precise air conditioning, computer room air handlers (CRAHs), computer room air conditioners (CRACs), coolant distribution units (CDUs), heat exchangers, smarter airflow control systems, and AI-driven thermal monitoring platforms. Together, these strategies facilitate efficient heat removal, manage high-density rack configurations that can exceed 100 kW, enhance the reliability of the overall facility, and reduce energy consumption associated with cooling.

“By end-use industry, the government & defense segment is the fastest-growing segment of the data center thermal management market during the forecast period.”

The government & defense segment is expected to have the highest CAGR in the global data center thermal management market over the forecast period, mainly because more investments are going into secure digital infrastructure, defense modernization programs, and growing artificial intelligence (AI), cybersecurity, and mission-critical computing use cases. Government agencies and defense organizations are also expanding their data center abilities for intelligence gathering surveillance, command and control systems, geospatial analytics, and classified cloud environments. And of course, these types of workloads need high-performance computing (HPC) infrastructure that produces a lot of heat, so there's a strong demand for advanced thermal management solutions that can keep everything running without interruption, protect system reliability, and uphold data security. A lot of today's defense applications autonomous systems, real-time battlefield analytics, satellite communications, and cyber defense operations are built around high-density computing, and it means thermal management must be efficient. Because of this, government agencies are more deploying liquid cooling systems, precise air conditioning, smarter airflow management, and mixed cooling architectures, so equipment stays at its best while energy consumption and day to day operating costs get pushed down a bit.

“North America is projected to be the largest data center thermal management market, in terms of value, during the forecast period.”

North America is expected to be the largest market for data center thermal management by value during the forecast period. This growth is primarily driven by its established digital infrastructure, a significant presence of hyperscale cloud providers, and the rapid increase in artificial intelligence (AI) and high-performance computing (HPC) workloads. The US and Canada continue to experience significant investment in hyperscale, colocation, and enterprise data centers. Companies like Amazon Web Services (AWS), Microsoft, Google, Meta, Oracle, and CoreWeave are expanding their AI-ready infrastructures. As more high-density server racks and GPU clusters are implemented, thermal loads are increasing, which in turn raises the demand for enhanced thermal management solutions across the region.

Moreover, this area is at the forefront of developing next-generation cooling technologies. These include direct-to-chip liquid cooling, immersion cooling, precision air conditioning, computer room air handlers (CRAHs), computer room air conditioners (CRACs), coolant distribution units (CDUs), heat exchangers, and smart thermal

monitoring systems. With these advanced tools, data center teams can improve cooling efficiency, maintain optimal temperatures, reduce energy consumption, and achieve better Power Usage Effectiveness (PUE) outcomes, all while managing the growing demands of power-hungry AI applications.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 45%, Tier 2 – 22%, and Tier 3 – 33%

By Designation: C-Level Executives– 50%, Directors– 10%, and Others – 40%

By Region: North America – 17%, Asia Pacific – 17%, Europe – 33%, Middle East & Africa – 25%, and South America – 8%

Leading players operating in the data center thermal management market include Vertiv Group Corp (US), Johnson Controls, Inc. (US), Schneider Electric (France), Carrier (US), Daikin Industries Ltd. (Japan), Mitsubishi Electric Corporation (Japan), Super Micro Computer Inc (US), Modine (US), Trane (Ireland), Lenovo (China), STULZ GMBH (Germany), Sugon Information Industry Co., Ltd. (China), Munters (Sweden), Delta Electronics Inc. (Taiwan), CoolIT Systems (Ecolab) (Canada), Baltimore Aircoil Company, Inc. (US), Eaton (Ireland), Rittal GmbH & Co. KG (Germany), DCX Liquid Cooling Systems (Poland), Taisol Electronics Co., Ltd. (Taiwan), Alfa Laval (Sweden), Green Revolution Cooling Inc. (US), Flex Ltd (US), Koari Heat Treatment Co., Ltd. (Taiwan), GIGA-BYTE Technology Co., Ltd. (Taiwan), Legrand (France), Submer (Spain), Inspur Co., Ltd. (China), Asperitas (Netherlands), Zutacore Inc. (US), and others. These key players are significant contributors to the data center thermal management market. These players have adopted various strategies, including agreements, joint ventures, and expansions, to increase their market share and business revenue.

Research Coverage:

The report defines, segments, and projects the size of the data center thermal management market based on component, data center type, end-use industry, service, technology, type of cooling, and region. It strategically profiles the key players and comprehensively analyzes their market shares and core competencies. It also tracks and analyzes competitive developments, such as expansions, partnerships, and acquisitions undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help market leaders/new entrants by providing them with the closest approximations of revenue numbers for the data center thermal management market and its segments. This report is also expected to help stakeholders gain a deeper understanding of the market's competitive landscape, acquire valuable insights to enhance their business positions, and develop effective go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of drivers (Need for improved efficiency in data centers, Significant growth in number of data centers), restraints (High capital investment, Requirement of specialized infrastructure), opportunities (Emergence of liquid cooling technology, Growing requirement for modular data center cooling), and challenges (Cooling challenges during power outages, Necessity of reducing carbon emissions) are influencing the growth of the data center thermal management market.

Product Development/Innovation: Detailed insights into upcoming technologies and research & development activities in the data center thermal management market.

Market Development: Comprehensive information about lucrative markets – the report analyzes the data center thermal management market across varied regions.

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the data center thermal management market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players such as Vertiv Group Corp (US), Johnson Controls, Inc. (US), Schneider Electric (France), Carrier (US), Daikin Industries Ltd. (Japan), Mitsubishi Electric Corporation (Japan), Super Micro Computer Inc (US), Modine (US), Trane (Ireland), Lenovo (China), STULZ GMBH (Germany), Sugon Information Industry Co., Ltd. (China), Munters

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Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
- 1.4 INCLUSIONS AND EXCLUSIONS
 - 1.4.1 YEARS CONSIDERED
 - 1.4.2 CURRENCY CONSIDERED
- 1.5 STAKEHOLDERS
- 1.6 RESEARCH LIMITATIONS

2 EXECUTIVE SUMMARY

- 2.1 KEY INSIGHTS AND MARKET HIGHLIGHTS
- 2.2 KEY MARKET PARTICIPANTS: SHARE INSIGHTS AND STRATEGIC DEVELOPMENTS
- 2.3 DISRUPTIVE TRENDS IN DATA CENTER THERMAL MANAGEMENT MARKET
- 2.4 HIGH-GROWTH SEGMENTS
- 2.5 REGIONAL SNAPSHOT: MARKET SIZE, GROWTH RATE, AND FORECAST

3 PREMIUM INSIGHTS

- 3.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN DATA CENTER THERMAL MANAGEMENT MARKET
- 3.2 DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE
- 3.3 DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY
- 3.4 DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS
- 3.5 DATA CENTER THERMAL MANAGEMENT MARKET, BY COMPONENTS
- 3.6 DATA CENTER COOLING MARKET, BY END-USE INDUSTRY
- 3.7 DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION
- 3.8 DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY

4 MARKET OVERVIEW

- 4.1 INTRODUCTION
- 4.2 MARKET DYNAMICS

4.2.1 DRIVERS

- 4.2.1.1 Need for improving efficiency in data centers
- 4.2.1.2 Significant growth in number of data centers

4.2.2 RESTRAINTS

- 4.2.2.1 High capital investment
- 4.2.2.2 Requirement of specialized infrastructure

4.2.3 OPPORTUNITIES

- 4.2.3.1 Emergence of liquid cooling technology
- 4.2.3.2 Increase in server rack density
- 4.2.3.3 Growing requirement for modular data center cooling
- 4.2.3.4 Development of innovative cooling techniques

4.2.4 CHALLENGES

- 4.2.4.1 Cooling challenges during power outage
- 4.2.4.2 Necessity of reducing carbon emissions

4.3 UNMET NEEDS AND WHITE SPACES

- 4.3.1 UNMET NEEDS IN DATA CENTER THERMAL MANAGEMENT MARKET
- 4.3.2 WHITE SPACE OPPORTUNITIES

4.4 INTERCONNECTED MARKETS AND CROSS SECTOR OPPORTUNITIES

- 4.4.1 INTERCONNECTED MARKETS
- 4.4.2 CROSS SECTOR OPPORTUNITIES

4.5 EMERGING BUSINESS MODELS AND ECOSYSTEM SHIFTS

- 4.5.1 EMERGING BUSINESS MODELS
- 4.5.2 ECOSYSTEM SHIFTS

4.6 STRATEGIC MOVES BY TIER 1/2/3 PLAYERS

- 4.6.1 KEY MOVES AND STRATEGIC FOCUS

5 INDUSTRY TRENDS

5.1 PORTER'S FIVE FORCES ANALYSIS

- 5.1.1 BARGAINING POWER OF SUPPLIERS
- 5.1.2 THREAT OF NEW ENTRANTS
- 5.1.3 THREAT OF SUBSTITUTES
- 5.1.4 BARGAINING POWER OF BUYERS
- 5.1.5 INTENSITY OF COMPETITIVE RIVALRY

5.2 GLOBAL MACROECONOMIC OUTLOOK

- 5.2.1 GDP TRENDS
- 5.2.2 TRENDS IN GLOBAL AI SECTOR

5.3 VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM ANALYSIS

5.5 KEY CONFERENCES AND EVENTS, 2026–2027

5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.7 INVESTMENT AND FUNDING SCENARIO

5.8 CASE STUDY ANALYSIS

5.8.1 REDUCTION IN DATA CENTER ENERGY SPENDING BY ADOPTING
IMMERSION COOLING

5.8.2 BETTER PER RACK POWER DENSITY AND SCALABILITY

6 STRATEGIC DISRUPTION THROUGH TECHNOLOGY, PATENTS, DIGITAL, AND AI ADOPTIONS

6.1 KEY EMERGING TECHNOLOGIES

6.1.1 AIR COOLING

6.1.2 LIQUID COOLING

6.2 ADJACENT TECHNOLOGIES

6.2.1 THERMOELECTRIC COOLING

6.2.2 ON-CHIP COOLING/EMBEDDED MICROFLUIDICS

6.3 COMPLEMENTARY TECHNOLOGIES

6.3.1 ADVANCED THERMAL INTERFACE MATERIALS

6.3.2 LIQUID LEAK DETECTION & CONTAINMENT SYSTEMS

6.4 PATENT ANALYSIS

6.4.1 INTRODUCTION

6.4.2 METHODOLOGY

6.4.3 DOCUMENT TYPE

6.4.4 INSIGHTS

6.4.5 LEGAL STATUS OF PATENTS

6.4.6 JURISDICTION ANALYSIS

6.4.7 TOP APPLICANTS

6.4.8 MAJOR PATENTS

6.5 FUTURE APPLICATIONS

6.5.1 AI-OPTIMIZED HYBRID COOLING SYSTEMS: INTEGRATED AIR AND LIQUID
COOLING SYSTEMS THAT OPTIMIZE THERMAL PERFORMANCE FOR AI, HPC,
AND MIXED-USE DATA CENTERS

6.5.2 INTELLIGENT THERMAL MANAGEMENT PLATFORMS: AI-ENABLED
COOLING PLATFORMS THAT OPTIMIZE TEMPERATURE, ENERGY USE, AND
SYSTEM PERFORMANCE IN REAL TIME

6.5.3 HIGH-TEMPERATURE LIQUID COOLING AND HEAT REUSE SYSTEMS:
WARM-WATER COOLING SYSTEMS THAT IMPROVE ENERGY EFFICIENCY AND
ENABLE WASTE HEAT RECOVERY

6.5.4 MODULAR AI-READY COOLING INFRASTRUCTURE: PREFABRICATED COOLING SYSTEMS THAT ENABLE RAPID DEPLOYMENT AND SCALABLE EXPANSION OF AI DATA CENTERS

6.6 IMPACT OF AI ON DATA CENTER THERMAL MANAGEMENT MARKET

6.6.1 TOP USE CASES AND MARKET POTENTIAL

6.6.2 BEST PRACTICES: COMPANIES/INSTITUTIONS USE CASES

6.6.3 CASE STUDIES OF AI IMPLEMENTATION IN DATA CENTER THERMAL MANAGEMENT MARKET

6.6.4 INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET PLAYERS

6.6.5 CLIENTS' READINESS TO ADOPT GENERATIVE AI IN DATA CENTER THERMAL MANAGEMENT MARKET

6.6.5.1 Vertiv: AI-assisted thermal management for high-density data centers

6.6.5.2 Schneider Electric: AI-enabled software for intelligent data center cooling

7 SUSTAINABILITY AND REGULATORY LANDSCAPE

7.1 REGIONAL REGULATIONS AND COMPLIANCE

7.1.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

7.1.2 INDUSTRY STANDARDS

7.2 SUSTAINABILITY INITIATIVES

7.2.1 CARBON IMPACT AND ECO APPLICATIONS OF DATA CENTER THERMAL MANAGEMENT

7.3 SUSTAINABILITY IMPACT AND REGULATORY POLICY INITIATIVES

7.4 CERTIFICATIONS, LABELLING, AND ECO STANDARDS

8 CUSTOMER LANDSCAPE & BUYER BEHAVIOUR

8.1 DECISION-MAKING PROCESS

8.2 KEY STAKEHOLDERS AND BUYING CRITERIA

8.2.1 KEY STAKEHOLDERS IN BUYING PROCESS

8.2.2 BUYING CRITERIA

8.3 ADOPTION BARRIERS & INTERNAL CHALLENGES

8.4 UNMET NEEDS IN VARIOUS END-USE INDUSTRIES

8.5 MARKET PROFITABILITY

8.5.1 REVENUE POTENTIAL

8.5.2 COST DYNAMICS

8.5.3 MARGIN OPPORTUNITIES, BY TYPE OF COOLING

9 DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY

9.1 INTRODUCTION

9.2 AIR COOLING

9.2.1 ENTRENCHED INFRASTRUCTURE DOMINANCE AND PRECISION ENGINEERING ADVANCEMENTS SUSTAINING MARKET

9.3 LIQUID COOLING

9.3.1 SURGING AI AND HPC RACK DENSITIES PROPELLING DIRECT-TO-CHIP COOLING

10 DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS

10.1 INTRODUCTION

10.2 HARDWARE

10.2.1 HYPERSCALE EXPANSION AND AI-DRIVEN RACK DENSITY SURGE TO SUSTAIN MARKET GROWTH

10.3 SERVICES

10.3.1 ACCELERATING LIQUID COOLING ADOPTION AND LEGACY RETROFIT DEMAND TO DRIVE SEGMENT GROWTH

11 DATA CENTER THERMAL MANAGEMENT MARKET, BY COMPONENTS

11.1 INTRODUCTION

11.2 AIR CONDITIONING

11.2.1 LOW INSTALLATION & MAINTENANCE COSTS DRIVING DEMAND

11.3 CHILLING UNITS

11.3.1 LOW COST AND BETTER PERFORMANCE CHARACTERISTICS TO INCREASE ADOPTION

11.4 COOLING TOWERS

11.4.1 INCREASING ADOPTION OF COST-EFFECTIVE COOLING TOWER SOLUTIONS TO FUEL DEMAND

11.5 LIQUID COOLING SYSTEMS

11.5.1 GROWING DEMAND FOR HIGH-EFFICIENCY COOLING SYSTEMS TO DRIVE MARKET GROWTH

11.6 ECONOMIZER SYSTEMS

11.6.1 SIGNIFICANT ENERGY SAVING AND INCREASING ADOPTION IN LARGE DATA CENTERS TO FUEL DEMAND

11.7 CONTROL SYSTEMS

11.7.1 NECESSITY TO MONITOR & CONTROL COOLING UNITS IN DATA CENTER FUELING ADOPTION

11.8 OTHER COMPONENTS

12 DATA CENTER THERMAL MANAGEMENT MARKET, DATA CENTER TYPE

12.1 INTRODUCTION

12.2 HYPERSCALE DATA CENTERS

12.2.1 UNPRECEDENTED AI-DRIVEN POWER DENSITIES SUPPORTING MARKET GROWTH

12.3 ENTERPRISE DATA CENTERS

12.3.1 LEGACY INFRASTRUCTURE RETROFIT AND RISING AI WORKLOAD ADOPTION DRIVING INCREMENTAL THERMAL UPGRADES

12.4 COLOCATION DATA CENTERS

12.4.1 MULTI-TENANT HYPERSCALE-READY CAMPUSES AND AI TENANT ONBOARDING ACCELERATE ADVANCED COOLING INVESTMENT

13 DATA CENTER THERMAL MANAGEMENT MARKET, END-USE INDUSTRY

13.1 INTRODUCTION

13.2 BFSI

13.2.1 RAPID DIGITALIZATION, REAL-TIME ANALYTICS, AND SUSTAINABILITY MANDATES TO DRIVE GROWTH

13.3 IT & TELECOM

13.3.1 HYPERSCALE CLOUD EXPANSION AND AI WORKLOAD PROLIFERATION CEMENT SUSTAINED MARKET LEADERSHIP

13.4 RESEARCH & ACADEMIC

13.4.1 INCREASING DEMAND FOR INNOVATIVE COOLING SOLUTIONS TO SUPPORT MARKET

13.5 GOVERNMENT & DEFENSE

13.5.1 GOVERNMENT INITIATIVES TOWARD DIGITALIZATION TO INCREASE DEMAND

13.6 RETAIL

13.6.1 INCREASING FOCUS BY RETAIL SECTOR TO ENHANCE IT INFRASTRUCTURE TO SUPPORT MARKET GROWTH

13.7 ENERGY

13.7.1 EMPHASIS ON SUSTAINABLE & ENERGY-EFFICIENT DATA CENTER THERMAL MANAGEMENT SOLUTIONS TO DRIVE DEMAND

13.8 MANUFACTURING

13.8.1 LOWER OPERATIONAL COSTS AND CAPITAL EXPENDITURE TO DRIVE DEMAND

13.9 HEALTHCARE

13.9.1 AI-DRIVEN DIAGNOSTICS AND DIGITAL HEALTH INFRASTRUCTURE ACCELERATING DEMAND

13.10 OTHER END-USE INDUSTRIES

14 DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION

14.1 INTRODUCTION

14.2 ASIA PACIFIC

14.2.1 CHINA

14.2.1.1 Digital transformation to drive data center expansion and data center thermal management market

14.2.2 INDIA

14.2.2.1 Increasing internet users to drive rapid adoption of data center thermal management

14.2.3 JAPAN

14.2.3.1 Presence of large service providers to drive market

14.2.4 SOUTH KOREA

14.2.4.1 Data center infrastructural investments and digital revolution to drive market

14.2.5 REST OF ASIA PACIFIC

14.3 NORTH AMERICA

14.3.1 US

14.3.1.1 Presence of IT and internet giants to drive market

14.3.2 CANADA

14.3.2.1 Increased digitization and huge data generation to drive adoption

14.3.3 MEXICO

14.3.3.1 Exponential growth in data traffic to drive demand

14.4 EUROPE

14.4.1 GERMANY

14.4.1.1 Growth of data centers in IT and technology sectors to drive market

14.4.2 UK

14.4.2.1 Surge in data consumption and presence of major hyperscale sites to fuel demand for efficient cooling solutions

14.4.3 NETHERLANDS

14.4.3.1 Favorable factors, such as tax exemption for green energy usage, to drive market

14.4.4 FRANCE

14.4.4.1 Growth in ICT sector and focus on environmental sustainability to drive market

14.4.5 ITALY

14.4.5.1 Rising demand for colocation data centers to boost market

14.4.6 REST OF EUROPE

14.5 MIDDLE EAST & AFRICA

14.5.1 GCC COUNTRIES

14.5.1.1 UAE

14.5.1.1.1 Increasing adoption of newer technologies to support market growth

14.5.1.2 Saudi Arabia

14.5.1.2.1 Demand for rugged data center solutions & managed services and digitization to drive market

14.5.1.3 Rest of GCC countries

14.5.2 SOUTH AFRICA

14.5.2.1 Developed telecommunication infrastructure to fuel market

14.5.3 REST OF MIDDLE EAST & AFRICA

14.6 SOUTH AMERICA

14.6.1 BRAZIL

14.6.1.1 Digital transformation to drive market growth

14.6.2 REST OF SOUTH AMERICA

15 COMPETITIVE LANDSCAPE

15.1 INTRODUCTION

15.2 KEY PLAYERS' STRATEGIES/RIGHT TO WIN

15.3 REVENUE ANALYSIS

15.4 MARKET SHARE AND RANKING ANALYSIS

15.4.1 RANKING ANALYSIS OF KEY MARKET PLAYERS

15.4.2 MARKET SHARE OF KEY PLAYERS

15.5 BRAND/PRODUCT COMPARISON

15.6 COMPANY VALUATION AND FINANCIAL METRICS

15.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2025

15.7.1 STARS

15.7.2 EMERGING LEADERS

15.7.3 PERVASIVE PLAYERS

15.7.4 PARTICIPANTS

15.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2025

15.7.5.1 Company footprint

15.7.5.2 Region footprint

15.7.5.3 Technology footprint

15.7.5.4 Components footprint

15.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2025

15.8.1 PROGRESSIVE COMPANIES

15.8.2 RESPONSIVE COMPANIES

15.8.3 DYNAMIC COMPANIES

15.8.4 STARTING BLOCKS

15.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2025

15.8.5.1 Detailed list of key startups/SMEs

15.8.5.2 Competitive benchmarking of key startups/SMEs

15.9 COMPETITIVE SCENARIO

15.9.1 PRODUCT LAUNCHES

15.9.2 DEALS

15.9.3 EXPANSIONS

16 COMPANY PROFILES

16.1 KEY PLAYERS

16.1.1 VERTIV GROUP CORP.

16.1.1.1 Business overview

16.1.1.2 Products/Solutions/Services offered

16.1.1.3 Recent developments

16.1.1.3.1 Product launches

16.1.1.3.2 Deals

16.1.1.4 MnM view

16.1.1.4.1 Key strengths

16.1.1.4.2 Strategic choices

16.1.1.4.3 Weaknesses and competitive threats

16.1.2 JOHNSON CONTROLS

16.1.2.1 Business overview

16.1.2.2 Products/Solutions/Services offered

16.1.2.3 Recent developments

16.1.2.3.1 Deals

16.1.2.3.2 Expansions

16.1.2.4 MnM view

16.1.2.4.1 Key strengths

16.1.2.4.2 Strategic choices

16.1.2.4.3 Weaknesses and competitive threats

16.1.3 CARRIER

- 16.1.3.1 Business overview
- 16.1.3.2 Products/Solutions/Services offered
- 16.1.3.3 Recent developments
 - 16.1.3.3.1 Product launches
 - 16.1.3.3.2 Deals
- 16.1.3.4 MnM view
 - 16.1.3.4.1 Key strengths
 - 16.1.3.4.2 Strategic choices
 - 16.1.3.4.3 Weaknesses and competitive threats
- 16.1.4 SCHNEIDER ELECTRIC
 - 16.1.4.1 Business overview
 - 16.1.4.2 Products/Solutions/Services offered
 - 16.1.4.3 Recent developments
 - 16.1.4.3.1 Product launches
 - 16.1.4.3.2 Deals
 - 16.1.4.4 MnM view
 - 16.1.4.4.1 Key strengths
 - 16.1.4.4.2 Strategic choices
 - 16.1.4.4.3 Weaknesses and competitive threats
- 16.1.5 DAIKIN INDUSTRIES, LTD.
 - 16.1.5.1 Business overview
 - 16.1.5.2 Products/Solutions/Services offered
 - 16.1.5.3 Recent developments
 - 16.1.5.3.1 Product launches
 - 16.1.5.3.2 Deals
 - 16.1.5.3.3 Expansions
 - 16.1.5.4 MnM view
 - 16.1.5.4.1 Key strengths
 - 16.1.5.4.2 Strategic choices
 - 16.1.5.4.3 Weaknesses and competitive threats
- 16.1.6 GREEN REVOLUTION COOLING, INC.
 - 16.1.6.1 Business overview
 - 16.1.6.2 Products/Solutions/Services offered
 - 16.1.6.3 Recent developments
 - 16.1.6.3.1 Deals
- 16.1.7 SUBMER
 - 16.1.7.1 Business overview
 - 16.1.7.2 Products/Solutions/Services offered
 - 16.1.7.3 Recent developments

- 16.1.7.3.1 Product launches
- 16.1.7.3.2 Deals
- 16.1.7.3.3 Expansions
- 16.1.7.3.4 Others
- 16.1.8 ASPERITAS
 - 16.1.8.1 Business overview
 - 16.1.8.2 Products/Solutions/Services offered
 - 16.1.8.3 Recent developments
 - 16.1.8.3.1 Product launches
 - 16.1.8.3.2 Deals
- 16.1.9 COOLIT SYSTEMS (ECOLAB)
 - 16.1.9.1 Business overview
 - 16.1.9.2 Products/Solutions/Services offered
 - 16.1.9.3 Recent developments
 - 16.1.9.3.1 Product launches
 - 16.1.9.3.2 Deals
 - 16.1.9.3.3 Expansions
- 16.1.10 DCX LIQUID COOLING SYSTEMS
 - 16.1.10.1 Business overview
 - 16.1.10.2 Products/Solutions/Services offered
 - 16.1.10.3 Recent developments
 - 16.1.10.3.1 Product launches
- 16.1.11 MITSUBISHI ELECTRIC CORPORATION
 - 16.1.11.1 Business overview
 - 16.1.11.2 Products/Solutions/Services offered
 - 16.1.11.3 Recent developments
 - 16.1.11.3.1 Product launches
 - 16.1.11.3.2 Deals
- 16.1.12 RITTAL GMBH & CO. KG
 - 16.1.12.1 Business overview
 - 16.1.12.2 Products/Solutions/Services offered
 - 16.1.12.3 Recent developments
 - 16.1.12.3.1 Product launches
 - 16.1.12.3.2 Deals
- 16.1.13 TRANE
 - 16.1.13.1 Business overview
 - 16.1.13.2 Products/Solutions/Services offered
 - 16.1.13.3 Recent developments
 - 16.1.13.3.1 Product launches

- 16.1.13.3.2 Deals
- 16.1.14 MUNTERS GROUP AB
 - 16.1.14.1 Business overview
 - 16.1.14.2 Products/Solutions/Services offered
 - 16.1.14.3 Recent developments
 - 16.1.14.3.1 Deals
 - 16.1.14.3.2 Expansions
 - 16.1.14.3.3 Others
- 16.1.15 STULZ GMBH
 - 16.1.15.1 Business overview
 - 16.1.15.2 Products/Solutions/Services offered
 - 16.1.15.3 Recent developments
 - 16.1.15.3.1 Product launches
 - 16.1.15.3.2 Expansions
- 16.1.16 DELTA ELECTRONICS, INC.
 - 16.1.16.1 Business overview
 - 16.1.16.2 Products/Solutions/Services offered
 - 16.1.16.3 Recent developments
 - 16.1.16.3.1 Deals
- 16.1.17 MODINE
 - 16.1.17.1 Business overview
 - 16.1.17.2 Products/Solutions/Services offered
 - 16.1.17.3 Recent developments
 - 16.1.17.3.1 Product launches
 - 16.1.17.3.2 Deals
 - 16.1.17.3.3 Expansions
 - 16.1.17.3.4 Others
- 16.1.18 EATON CORPORATION PLC (BOYD)
 - 16.1.18.1 Business overview
 - 16.1.18.2 Products/Solutions/Services offered
 - 16.1.18.3 Recent developments
 - 16.1.18.3.1 Product launches
 - 16.1.18.3.2 Deals
- 16.1.19 SUPER MICRO COMPUTER, INC.
 - 16.1.19.1 Business overview
 - 16.1.19.2 Products/Solutions/Services offered
 - 16.1.19.3 Recent developments
 - 16.1.19.3.1 Deals
 - 16.1.19.3.2 Expansions

16.1.20 FLEX LTD.

- 16.1.20.1 Business overview
- 16.1.20.2 Products/Solutions/Services offered
- 16.1.20.3 Recent developments
 - 16.1.20.3.1 Product launches
 - 16.1.20.3.2 Deals

16.1.21 ALFA LAVAL

- 16.1.21.1 Business overview
- 16.1.21.2 Products/Solutions/Services offered

16.1.22 LEGRAND

- 16.1.22.1 Business overview
- 16.1.22.2 Products/Solutions/Services offered
- 16.1.22.3 Recent developments
 - 16.1.22.3.1 Product launches
 - 16.1.22.3.2 Deals
 - 16.1.22.3.3 Expansions

16.1.23 BALTIMORE AIRCOIL COMPANY, INC.

- 16.1.23.1 Business overview
- 16.1.23.2 Products/Solutions/Services offered
- 16.1.23.3 Recent developments
 - 16.1.23.3.1 Product launches
 - 16.1.23.3.2 Deals

16.1.24 NVENT

- 16.1.24.1 Business overview
- 16.1.24.2 Products/Solutions/Services offered
- 16.1.24.3 Recent developments
 - 16.1.24.3.1 Product launches
 - 16.1.24.3.2 Deals

16.1.25 KAORI HEAT TREATMENT CO., LTD.

- 16.1.25.1 Business overview
- 16.1.25.2 Products/Solutions/Services offered

16.1.26 GIGA-BYTE TECHNOLOGY CO., LTD.

- 16.1.26.1 Business overview
- 16.1.26.2 Products/Solutions/Services offered
- 16.1.26.3 Recent developments
 - 16.1.26.3.1 Deals

16.1.27 ZUTACORE, INC.

- 16.1.27.1 Business overview
- 16.1.27.2 Products/Solutions/Services offered

- 16.1.27.3 Recent developments
 - 16.1.27.3.1 Deals
 - 16.1.27.3.2 Others
- 16.1.28 LENOVO
 - 16.1.28.1 Business overview
 - 16.1.28.2 Products/Solutions/Services offered
 - 16.1.28.3 Recent developments
 - 16.1.28.3.1 Product launches
 - 16.1.28.3.2 Deals
- 16.1.29 SUGON INFORMATION INDUSTRY CO., LTD.
 - 16.1.29.1 Business overview
 - 16.1.29.2 Products/Solutions/Services offered
 - 16.1.29.3 Recent developments
 - 16.1.29.3.1 Product launches
 - 16.1.29.3.2 Deals
 - 16.1.29.3.3 Others
- 16.1.30 INSPUR CO., LTD.
 - 16.1.30.1 Business overview
 - 16.1.30.2 Products/Solutions/Services offered
- 16.1.31 ACCELSIUS LLC
 - 16.1.31.1 Business overview
 - 16.1.31.2 Products/Solutions/Services offered
 - 16.1.31.3 Recent developments
 - 16.1.31.3.1 Product launches
- 16.1.32 TAISOL ELECTRONICS CO., LTD.
 - 16.1.32.1 Business overview
 - 16.1.32.2 Products/Solutions/Services offered
- 16.2 OTHER PLAYERS
 - 16.2.1 COOLCENTRIC
 - 16.2.2 ICEOTOPE
 - 16.2.3 LIQUIDCOOL SOLUTIONS
 - 16.2.4 MIDAS IMMERSION COOLING
 - 16.2.5 CHILLDYNE, INC. (DAIKIN)
 - 16.2.6 MALICO INC.

17 RESEARCH METHODOLOGY

- 17.1 RESEARCH DATA
 - 17.1.1 SECONDARY DATA

- 17.1.1.1 List of key secondary sources
- 17.1.1.2 Key data from secondary sources
- 17.1.2 PRIMARY DATA
 - 17.1.2.1 Key data from primary sources
 - 17.1.2.2 Key industry insights
 - 17.1.2.3 List of participating companies for primary research
 - 17.1.2.4 Breakdown of primary interviews
- 17.2 MARKET SIZE ESTIMATION
 - 17.2.1 TOP-DOWN APPROACH
 - 17.2.2 BOTTOM-UP APPROACH
- 17.3 MARKET FORECAST APPROACH
 - 17.3.1 DEMAND SIDE ANALYSIS
 - 17.3.2 SUPPLY SIDE ANALYSIS
 - 17.3.3 CALCULATION FOR SUPPLY SIDE ANALYSIS
- 17.4 GROWTH FORECAST
- 17.5 DATA TRIANGULATION
- 17.6 RESEARCH ASSUMPTIONS
- 17.7 RESEARCH LIMITATIONS
- 17.8 RISK ASSESSMENT
- 17.9 FACTOR ANALYSIS
- 18 APPENDIX**
 - 18.1 DISCUSSION GUIDE
 - 18.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
 - 18.3 CUSTOMIZATION OPTIONS
 - 18.4 RELATED REPORTS
 - 18.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY TECHNOLOGY

TABLE 2 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY REGION

TABLE 3 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY SOLUTIONS

TABLE 4 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY COMPONENTS

TABLE 5 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY DATA CENTER TYPE

TABLE 6 DATA CENTER THERMAL MANAGEMENT MARKET: INCLUSIONS AND EXCLUSIONS, BY END-USE INDUSTRY

TABLE 7 DATA CENTER THERMAL MANAGEMENT MARKET: IMPACT OF PORTER'S FIVE FORCES

TABLE 8 REAL GDP GROWTH (ANNUAL PERCENTAGE CHANGE), BY COUNTRY, 2021–2024

TABLE 9 UNEMPLOYMENT RATE, BY COUNTRY, 2021–2024 (%)

TABLE 10 INFLATION RATE (AVERAGE CONSUMER PRICES), BY COUNTRY, 2021–2024 (%)

TABLE 11 FOREIGN DIRECT INVESTMENT, 2022 VS. 2023 (USD BILLION)

TABLE 12 DATA CENTER THERMAL MANAGEMENT MARKET: ROLE OF COMPANIES IN ECOSYSTEM

TABLE 13 DATA CENTER THERMAL MANAGEMENT MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2026–2027

TABLE 14 DATA CENTER THERMAL MANAGEMENT MARKET: TOTAL NUMBER OF PATENTS, 2015–2025

TABLE 15 TOP USE CASES AND MARKET POTENTIAL

TABLE 16 BEST PRACTICES: COMPANIES IMPLEMENTING USE CASES

TABLE 17 DATA CENTER THERMAL MANAGEMENT MARKET: CASE STUDIES RELATED TO GEN AI IMPLEMENTATION

TABLE 18 INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET PLAYERS

TABLE 19 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 22 ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 23 STANDARDS IN DATA CENTER THERMAL MANAGEMENT MARKET

TABLE 24 CERTIFICATIONS, LABELING, AND ECO STANDARDS IN DATA CENTER THERMAL MANAGEMENT MARKET

TABLE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE DATA CENTER TYPES (%)

TABLE 26 KEY BUYING CRITERIA, BY END-USE INDUSTRY

TABLE 27 DATA CENTER THERMAL MANAGEMENT MARKET: UNMET NEEDS IN KEY END-USE INDUSTRIES

TABLE 28 DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 29 DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 30 DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 31 DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 32 HARDWARE: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 33 HARDWARE: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 34 SERVICES: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 35 SERVICES: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 36 DATA CENTER THERMAL MANAGEMENT MARKET, BY COMPONENTS, 2021–2025 (USD MILLION)

TABLE 37 DATA CENTER THERMAL MANAGEMENT MARKET, BY COMPONENTS, 2026–2032 (USD MILLION)

TABLE 38 DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 39 DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 40 HYPERSCALE DATA CENTERS: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 41 HYPERSCALE DATA CENTERS: DATA CENTER THERMAL

MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 42 ENTERPRISE DATA CENTERS: DATA CENTER THERMAL

MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 43 ENTERPRISE DATA CENTERS: DATA CENTER THERMAL

MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 44 COLOCATION PROVIDERS: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 45 COLOCATION PROVIDERS: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 46 DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE
INDUSTRY, 2021–2025 (USD MILLION)

TABLE 47 DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE
INDUSTRY, 2026–2032 (USD MILLION)

TABLE 48 BFSI: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION,
2021–2025 (USD MILLION)

TABLE 49 BFSI: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION,
2026–2032 (USD MILLION)

TABLE 50 IT & TELECOM: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2021–2025 (USD MILLION)

TABLE 51 IT & TELECOM: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2026–2032 (USD MILLION)

TABLE 52 RESEARCH & ACADEMIC: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 53 RESEARCH & ACADEMIC: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 54 GOVERNMENT & DEFENSE: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 55 GOVERNMENT & DEFENSE: DATA CENTER THERMAL MANAGEMENT
MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 56 RETAIL: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2021–2025 (USD MILLION)

TABLE 57 RETAIL: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2026–2032 (USD MILLION)

TABLE 58 ENERGY: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2021–2025 (USD MILLION)

TABLE 59 ENERGY: DATA CENTER THERMAL MANAGEMENT MARKET, BY
REGION, 2026–2032 (USD MILLION)

TABLE 60 MANUFACTURING: DATA CENTER THERMAL MANAGEMENT MARKET,
BY REGION, 2021–2025 (USD MILLION)

TABLE 61 MANUFACTURING: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 62 HEALTHCARE: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 63 HEALTHCARE: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 64 OTHER END-USE INDUSTRIES: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 65 OTHER END-USE INDUSTRIES: DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 66 DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2021–2025 (USD MILLION)

TABLE 67 DATA CENTER THERMAL MANAGEMENT MARKET, BY REGION, 2026–2032 (USD MILLION)

TABLE 68 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2021–2025 (USD MILLION)

TABLE 69 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2026–2032 (USD MILLION)

TABLE 70 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 71 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 72 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 73 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 74 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 75 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 76 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2021–2025 (USD MILLION)

TABLE 77 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2026–2032 (USD MILLION)

TABLE 78 CHINA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 79 CHINA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 80 INDIA: DATA CENTER THERMAL MANAGEMENT MARKET, BY

SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 81 INDIA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 82 JAPAN: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 83 JAPAN: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 84 SOUTH KOREA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 85 SOUTH KOREA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 86 REST OF ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 87 REST OF ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 88 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2021–2025 (USD MILLION)

TABLE 89 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2026–2032 (USD MILLION)

TABLE 90 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 91 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 92 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 93 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 94 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 95 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 96 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2021–2025 (USD MILLION)

TABLE 97 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2026–2032 (USD MILLION)

TABLE 98 US: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 99 US: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 100 CANADA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 101 CANADA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 102 MEXICO: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 103 MEXICO: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 104 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2021–2025 (USD MILLION)

TABLE 105 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2026–2032 (USD MILLION)

TABLE 106 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 107 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 108 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 109 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 110 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 111 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 112 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2021–2025 (USD MILLION)

TABLE 113 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2026–2032 (USD MILLION)

TABLE 114 GERMANY: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 115 GERMANY: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 116 UK: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 117 UK: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 118 NETHERLANDS: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 119 NETHERLANDS: DATA CENTER THERMAL MANAGEMENT MARKET,

BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 120 FRANCE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 121 FRANCE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 122 ITALY: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 123 ITALY: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 124 REST OF EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 125 REST OF EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 126 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2021–2025 (USD MILLION)

TABLE 127 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2026–2032 (USD MILLION)

TABLE 128 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 129 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 130 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 131 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 132 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 133 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 134 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2021–2025 (USD MILLION)

TABLE 135 MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2026–2032 (USD MILLION)

TABLE 136 UAE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 137 UAE: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 138 SAUDI ARABIA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 139 SAUDI ARABIA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 140 REST OF GCC COUNTRIES: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 141 REST OF GCC COUNTRIES: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 142 SOUTH AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 143 SOUTH AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 144 REST OF MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 145 REST OF MIDDLE EAST & AFRICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 146 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2021–2025 (USD MILLION)

TABLE 147 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY COUNTRY, 2026–2032 (USD MILLION)

TABLE 148 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 149 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 150 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2021–2025 (USD MILLION)

TABLE 151 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY TECHNOLOGY, 2026–2032 (USD MILLION)

TABLE 152 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2025 (USD MILLION)

TABLE 153 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY DATA CENTER TYPE, 2026–2032 (USD MILLION)

TABLE 154 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2021–2025 (USD MILLION)

TABLE 155 SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET, BY END-USE INDUSTRY, 2026–2032 (USD MILLION)

TABLE 156 BRAZIL: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2021–2025 (USD MILLION)

TABLE 157 BRAZIL: DATA CENTER THERMAL MANAGEMENT MARKET, BY SOLUTIONS, 2026–2032 (USD MILLION)

TABLE 158 REST OF SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT

MARKET, BY COMPONENT, 2021–2025 (USD MILLION)

TABLE 159 REST OF SOUTH AMERICA: DATA CENTER THERMAL MANAGEMENT
MARKET, BY COMPONENT, 2026–2032 (USD MILLION)

TABLE 160 DATA CENTER THERMAL MANAGEMENT MARKET: OVERVIEW OF
STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 161 DATA CENTER THERMAL MANAGEMENT MARKET: DEGREE OF
COMPETITION, 2025

TABLE 162 DATA CENTER THERMAL MANAGEMENT MARKET: REGION
FOOTPRINT

TABLE 163 DATA CENTER THERMAL MANAGEMENT MARKET: TECHNOLOGY
FOOTPRINT

TABLE 164 DATA CENTER THERMAL MANAGEMENT MARKET: COMPONENTS
FOOTPRINT

TABLE 165 DATA CENTER THERMAL MANAGEMENT MARKET: DETAILED LIST OF
KEY STARTUPS/SMES

TABLE 166 DATA CENTER THERMAL MANAGEMENT MARKET: COMPETITIVE
BENCHMARKING OF KEY STARTUPS/SMES

TABLE 167 DATA CENTER THERMAL MANAGEMENT MARKET: PRODUCT
LAUNCHES, JANUARY 2020–JULY 2026

TABLE 168 DATA CENTER THERMAL MANAGEMENT MARKET: DEALS, JANUARY
2020–JULY 2026

TABLE 169 DATA CENTER THERMAL MANAGEMENT MARKET: EXPANSIONS,
JANUARY 2020–JULY 2026

TABLE 170 VERTIV GROUP CORP.: COMPANY OVERVIEW

TABLE 171 VERTIV GROUP CORP.: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 172 VERTIV GROUP CORP.: PRODUCT LAUNCHES

TABLE 173 VERTIV GROUP CORP.: DEALS

TABLE 174 JOHNSON CONTROLS: COMPANY OVERVIEW

TABLE 175 JOHNSON CONTROLS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 176 JOHNSON CONTROLS: DEALS

TABLE 177 JOHNSON CONTROLS: EXPANSIONS

TABLE 178 CARRIER: COMPANY OVERVIEW

TABLE 179 CARRIER: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 180 CARRIER: PRODUCT LAUNCHES

TABLE 181 CARRIER: DEALS

TABLE 182 SCHNEIDER ELECTRIC: COMPANY OVERVIEW

TABLE 183 SCHNEIDER ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 184 SCHNEIDER ELECTRIC: PRODUCT LAUNCHES

TABLE 185 SCHNEIDER ELECTRIC: DEALS

TABLE 186 DAIKIN INDUSTRIES, LTD.: COMPANY OVERVIEW

TABLE 187 DAIKIN INDUSTRIES, LTD.: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 188 DAIKIN INDUSTRIES, LTD.: PRODUCT LAUNCHES

TABLE 189 DAIKIN INDUSTRIES, LTD.: DEALS

TABLE 190 DAIKIN INDUSTRIES, LTD.: EXPANSIONS

TABLE 191 GREEN REVOLUTION COOLING, INC.: COMPANY OVERVIEW

TABLE 192 GREEN REVOLUTION COOLING, INC.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 193 GREEN REVOLUTION COOLING, INC.: DEALS

TABLE 194 SUBMER: COMPANY OVERVIEW

TABLE 195 SUBMER: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 196 SUBMER: PRODUCT LAUNCHES

TABLE 197 SUBMER: DEALS

TABLE 198 SUBMER: EXPANSIONS

TABLE 199 SUBMER: OTHERS

TABLE 200 ASPERITAS: COMPANY OVERVIEW

TABLE 201 ASPERITAS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 202 ASPERITAS: PRODUCT LAUNCHES

TABLE 203 ASPERITAS: DEALS

TABLE 204 COOLIT SYSTEMS (ECOLAB): COMPANY OVERVIEW

TABLE 205 COOLIT SYSTEMS (ECOLAB): PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 206 COOLIT SYSTEMS (ECOLAB): PRODUCT LAUNCHES

TABLE 207 COOLIT SYSTEMS (ECOLAB): DEALS

TABLE 208 COOLIT SYSTEMS (ECOLAB): EXPANSIONS

TABLE 209 DCX LIQUID COOLING SYSTEMS: COMPANY OVERVIEW

TABLE 210 DCX LIQUID COOLING SYSTEMS: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 211 DCX LIQUID COOLING SYSTEMS: PRODUCT LAUNCHES

TABLE 212 MITSUBISHI ELECTRIC CORPORATION: COMPANY OVERVIEW

TABLE 213 MITSUBISHI ELECTRIC CORPORATION:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 214 MITSUBISHI ELECTRIC CORPORATION: PRODUCT LAUNCHES

TABLE 215 MITSUBISHI ELECTRIC CORPORATION: DEALS

TABLE 216 RITTAL GMBH & CO. KG: COMPANY OVERVIEW

TABLE 217 RITTAL GMBH & CO. KG: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

TABLE 218 RITTAL GMBH & CO. KG: PRODUCT LAUNCHES

TABLE 219 RITTAL GMBH & CO. KG: DEALS

TABLE 220 TRANE: COMPANY OVERVIEW

TABLE 221 TRANE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 222 TRANE TECHNOLOGIES PLC: PRODUCT LAUNCHES

TABLE 223 TRANE TECHNOLOGIES PLC: DEALS

TABLE 224 MUNTERS GROUP AB: COMPANY OVERVIEW

TABLE 225 MUNTERS GROUP AB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 226 MUNTERS GROUP AB: DEALS

TABLE 227 MUNTERS GROUP AB: EXPANSIONS

TABLE 228 MUNTERS GROUP AB: OTHERS

TABLE 229 STULZ GMBH: COMPANY OVERVIEW

TABLE 230 STULZ GMBH: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 231 STULZ GMBH: PRODUCT LAUNCHES

TABLE 232 STULZ GMBH: EXPANSIONS

TABLE 233 DELTA ELECTRONICS, INC.: COMPANY OVERVIEW

TABLE 234 DELTA ELECTRONICS, INC.: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 235 DELTA ELECTRONICS, INC.: DEALS

TABLE 236 MODINE: COMPANY OVERVIEW

TABLE 237 MODINE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 238 MODINE: PRODUCT LAUNCHES

TABLE 239 MODINE: DEALS

TABLE 240 MODINE: EXPANSIONS

TABLE 241 MODINE: OTHERS

TABLE 242 EATON CORPORATION PLC (BOYD): COMPANY OVERVIEW

TABLE 243 EATON CORPORATION PLC (BOYD):

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 244 EATON CORPORATION PLC (BOYD): PRODUCT LAUNCHES

TABLE 245 EATON CORPORATION PLC (BOYD): DEALS

TABLE 246 SUPER MICRO COMPUTER, INC.: COMPANY OVERVIEW

TABLE 247 SUPER MICRO COMPUTER, INC.: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 248 SUPER MICRO COMPUTER, INC.: DEALS

TABLE 249 SUPER MICRO COMPUTER, INC.: EXPANSIONS

TABLE 250 FLEX LTD.: COMPANY OVERVIEW

TABLE 251 FLEX LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 252 FLEX LTD.: PRODUCT LAUNCHES

TABLE 253 FLEX LTD.: DEALS
TABLE 254 ALFA LAVAL: COMPANY OVERVIEW
TABLE 255 ALFA LAVAL: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 256 LEGRAND: COMPANY OVERVIEW
TABLE 257 LEGRAND: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 258 LEGRAND: PRODUCT LAUNCHES
TABLE 259 LEGRAND: DEALS
TABLE 260 LEGRAND: EXPANSIONS
TABLE 261 BALTIMORE AIRCOIL COMPANY, INC.: COMPANY OVERVIEW
TABLE 262 BALTIMORE AIRCOIL COMPANY, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 263 BALTIMORE AIRCOIL COMPANY, INC.: PRODUCT LAUNCHES
TABLE 264 BALTIMORE AIRCOIL COMPANY, INC.: DEALS
TABLE 265 NVENT: COMPANY OVERVIEW
TABLE 266 NVENT: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 267 NVENT: PRODUCT LAUNCHES
TABLE 268 NVENT: DEALS
TABLE 269 KAORI HEAT TREATMENT CO., LTD.: COMPANY OVERVIEW
TABLE 270 KAORI HEAT TREATMENT CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 271 GIGA-BYTE TECHNOLOGY CO., LTD.: COMPANY OVERVIEW
TABLE 272 GIGA-BYTE TECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 273 GIGA-BYTE TECHNOLOGY CO., LTD.: DEALS
TABLE 274 ZUTACORE, INC.: COMPANY OVERVIEW
TABLE 275 ZUTACORE, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 276 ZUTACORE, INC.: DEALS
TABLE 277 ZUTACORE, INC.: OTHERS
TABLE 278 LENOVO: COMPANY OVERVIEW
TABLE 279 LENOVO: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 280 LENOVO: PRODUCT LAUNCHES
TABLE 281 LENOVO: DEALS
TABLE 282 SUGON INFORMATION INDUSTRY CO., LTD.: COMPANY OVERVIEW
TABLE 283 SUGON INFORMATION INDUSTRY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 284 SUGON INFORMATION INDUSTRY CO., LTD.: PRODUCT LAUNCHES
TABLE 285 SUGON INFORMATION INDUSTRY CO., LTD.: DEALS
TABLE 286 SUGON INFORMATION INDUSTRY CO., LTD.: OTHERS
TABLE 287 INSPUR CO., LTD.: COMPANY OVERVIEW

TABLE 288 INSPUR CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 289 ACCELSIUS LLC: COMPANY OVERVIEW

TABLE 290 ACCELSIUS LLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 291 ACCELSIUS LLC: PRODUCT LAUNCHES

TABLE 292 TAISOL ELECTRONICS CO., LTD.: COMPANY OVERVIEW

TABLE 293 TAISOL ELECTRONICS CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 294 COOLCENTRIC: COMPANY OVERVIEW

TABLE 295 ICEOTOPE: COMPANY OVERVIEW

TABLE 296 LIQUIDCOOL SOLUTIONS: COMPANY OVERVIEW

TABLE 297 MIDAS IMMERSION COOLING: COMPANY OVERVIEW

TABLE 298 CHILLDYNE, INC. (DAIKIN): COMPANY OVERVIEW

TABLE 299 MALICO INC.: COMPANY OVERVIEW

List Of Figures

LIST OF FIGURES

FIGURE 1 DATA CENTER THERMAL MANAGEMENT MARKET SEGMENTATION AND REGIONAL SCOPE

FIGURE 2 KEY INSIGHTS AND MARKET HIGHLIGHTS

FIGURE 3 GLOBAL DATA CENTER THERMAL MANAGEMENT MARKET, 2026–2032

FIGURE 4 MAJOR STRATEGIES ADOPTED BY KEY PLAYERS IN DATA CENTER THERMAL MANAGEMENT MARKET (2020–2025)

FIGURE 5 DISRUPTIVE TRENDS IMPACTING GROWTH OF DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 6 HIGH-GROWTH SEGMENTS IN DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 7 NORTH AMERICA TO EXHIBIT FASTEST GROWTH DURING FORECAST PERIOD

FIGURE 8 RAPID ADOPTION OF AI, ML, AND BLOCKCHAIN TECHNOLOGIES TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

FIGURE 9 HYPERSCALE DATA CENTERS TO BE LARGEST SEGMENT DURING FORECAST PERIOD

FIGURE 10 LIQUID COOLING TO SECURE LEADING POSITION DURING FORECAST PERIOD

FIGURE 11 HARDWARE TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 12 LIQUID COOLING SYSTEMS TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 13 GOVERNMENT & DEFENCE TO BE LARGEST END USER DURING FORECAST PERIOD

FIGURE 14 NORTH AMERICA TO DOMINATE GLOBAL DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 15 US TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

FIGURE 16 DATA CENTER THERMAL MANAGEMENT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 17 GLOBAL DATA CENTER POWER USAGE EFFECTIVENESS

FIGURE 18 NUMBER OF DATA CENTERS WORLDWIDE AS OF JULY 2026

FIGURE 19 DATA CENTER COOLING TECHNOLOGIES, BY RACK POWER DENSITY

FIGURE 20 PORTER'S FIVE FORCES ANALYSIS: DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 21 GROWTH IN AI MARKET, 2023 TO 2033

FIGURE 22 DATA CENTER THERMAL MANAGEMENT MARKET: VALUE CHAIN ANALYSIS

FIGURE 23 DATA CENTER THERMAL MANAGEMENT MARKET: ECOSYSTEM MAPPING

FIGURE 24 DATA CENTER THERMAL MANAGEMENT MARKET: ECOSYSTEM ANALYSIS

FIGURE 25 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 26 INVESTMENT AND FUNDING SCENARIO, 2021–2026

FIGURE 27 PATENT ANALYSIS, BY DOCUMENT TYPE, 2015–2025

FIGURE 28 PATENT PUBLICATION TRENDS, 2015–2025

FIGURE 29 LEGAL STATUS OF PATENTS, JANUARY 2015–DECEMBER 2025

FIGURE 30 JURISDICTION OF CHINA REGISTERED HIGHEST SHARE OF PATENTS, 2015–2025

FIGURE 31 TOP PATENT APPLICANTS, 2015-2025

FIGURE 32 FUTURE APPLICATIONS OF DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 33 SUCCESS STORIES AND REAL WORLD APPLICATIONS

FIGURE 34 DATA CENTER THERMAL MANAGEMENT MARKET: DECISION-MAKING FACTORS

FIGURE 35 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE DATA CENTER TYPES

FIGURE 36 KEY BUYING CRITERIA, BY END-USE INDUSTRY

FIGURE 37 ADOPTION BARRIERS AND INTERNAL CHALLENGES

FIGURE 38 LIQUID COOLING SEGMENT TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

FIGURE 39 SERVICES SEGMENT TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

FIGURE 40 LIQUID COOLING SYSTEM SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 41 HYPERSCALE DATA CENTERS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 42 GOVERNMENT & DEFENSE SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 43 NORTH AMERICA TO RECORD HIGHEST CAGR IN DATA CENTER THERMAL MANAGEMENT MARKET DURING FORECAST PERIOD

FIGURE 44 ASIA PACIFIC: DATA CENTER THERMAL MANAGEMENT MARKET SNAPSHOT

FIGURE 45 NORTH AMERICA: DATA CENTER THERMAL MANAGEMENT MARKET SNAPSHOT

FIGURE 46 EUROPE: DATA CENTER THERMAL MANAGEMENT MARKET
SNAPSHOT

FIGURE 47 DATA CENTER THERMAL MANAGEMENT MARKET: REVENUE
ANALYSIS OF KEY COMPANIES, 2021–2025

FIGURE 48 DATA CENTER THERMAL MANAGEMENT MARKET: RANKING OF TOP
FIVE PLAYERS, 2025

FIGURE 49 DATA CENTER THERMAL MANAGEMENT MARKET SHARE ANALYSIS,
2025

FIGURE 50 DATA CENTER THERMAL MANAGEMENT MARKET: BRAND/PRODUCT
COMPARISON

FIGURE 51 DATA CENTER THERMAL MANAGEMENT MARKET: COMPANY
VALUATION, 2025

FIGURE 52 DATA CENTER THERMAL MANAGEMENT MARKET: EV/EBITDA OF
KEY VENDORS, 2025

FIGURE 53 DATA CENTER THERMAL MANAGEMENT MARKET: YTD AND 5-YEAR
BETA OF KEY VENDORS, 2025

FIGURE 54 DATA CENTER THERMAL MANAGEMENT MARKET: COMPANY
EVALUATION MATRIX (KEY PLAYERS), 2025

FIGURE 55 DATA CENTER THERMAL MANAGEMENT MARKET: COMPANY
FOOTPRINT

FIGURE 56 DATA CENTER THERMAL MANAGEMENT MARKET: COMPANY
EVALUATION MATRIX (STARTUPS/SMES), 2025

FIGURE 57 VERTIV GROUP CORP.: COMPANY SNAPSHOT

FIGURE 58 JOHNSON CONTROLS: COMPANY SNAPSHOT

FIGURE 59 CARRIER: COMPANY SNAPSHOT

FIGURE 60 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT

FIGURE 61 DAIKIN INDUSTRIES, LTD.: COMPANY SNAPSHOT

FIGURE 62 MITSUBISHI ELECTRIC CORPORATION: COMPANY SNAPSHOT

FIGURE 63 TRANE: COMPANY SNAPSHOT

FIGURE 64 MUNTERS GROUP AB: COMPANY SNAPSHOT

FIGURE 65 DELTA ELECTRONICS, INC.: COMPANY SNAPSHOT

FIGURE 66 MODINE: COMPANY SNAPSHOT

FIGURE 67 EATON CORPORATION PLC (BOYD): COMPANY SNAPSHOT

FIGURE 68 SUPER MICRO COMPUTER, INC.: COMPANY SNAPSHOT

FIGURE 69 FLEX LTD.: COMPANY SNAPSHOT

FIGURE 70 ALFA LAVAL: COMPANY SNAPSHOT

FIGURE 71 LEGRAND: COMPANY SNAPSHOT

FIGURE 72 NVENT: COMPANY SNAPSHOT

FIGURE 73 KAORI HEAT TREATMENT CO., LTD.: COMPANY SNAPSHOT

FIGURE 74 GIGA-BYTE TECHNOLOGY CO., LTD.: COMPANY SNAPSHOT

FIGURE 75 LENOVO: COMPANY SNAPSHOT

FIGURE 76 INSPUR CO., LTD.: COMPANY SNAPSHOT

FIGURE 77 TAISOL ELECTRONICS CO., LTD.: COMPANY SNAPSHOT

FIGURE 78 DATA CENTER THERMAL MANAGEMENT MARKET: RESEARCH DESIGN

FIGURE 79 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

FIGURE 80 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

FIGURE 81 MAIN MATRIX CONSIDERED TO ASSESS DEMAND DATA CENTER THERMAL MANAGEMENT SOLUTIONS

FIGURE 82 STEPS CONSIDERED TO ANALYZE SUPPLY OF DATA CENTER THERMAL MANAGEMENT SOLUTIONS

FIGURE 83 DATA TRIANGULATION: DATA CENTER THERMAL MANAGEMENT MARKET

FIGURE 84 FACTOR ANALYSIS

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