

Data Center Coolant Distribution Units Market by Type (In-Row, In-Rack, FDU), Cooling Type (Direct to Chip Cooling, Immersion Cooling), End User (Colocation Providers, Enterprises, Hyperscale), and Region Global Forecast to 2032

<https://marketpublishers.com/r/DE21380382C8EN.html>

Date: September 2025

Pages: 263

Price: US\$ 4,950.00 (Single User License)

ID: DE21380382C8EN

Abstracts

The global data center coolant distribution units market is projected to grow from USD 1.05 billion in 2025 to USD 7.74 billion by 2032, at a CAGR of 33.0% during the forecast period. Coolant distribution units act as an important component in liquid cooling systems, connecting the facility-level cooling infrastructure with the IT equipment to efficiently remove heat at the source. They support the delivery of precision cooling, higher rack densities, and optimized energy use. This makes them a preferred solution in next-generation data centers. Consequently, this fuels the rapid growth of the global coolant distribution units market in hyperscale, colocation, enterprise, and edge facilities.

“FDU segment to register highest CAGR during forecast period”

The Floor-Mounted Distribution Unit (FDU) segment is expected to grow at the fastest CAGR during the forecast period due to increasing deployments of high-density racks in hyperscale and enterprise data centers. FDUs offer high cooling capacity, scalability, and the ability to support large IT loads, making them ideal for facilities that perform AI, HPC, and cloud-intensive workloads. They are designed to connect closely with facility-level chilled water systems, which makes them well-suited for precise and reliable heat removal. Large investments in data centers across North America, Europe, and Asia-Pacific, combined with a shift toward energy-efficient and sustainable cooling solutions, have driven the adoption of FDUs.

“Direct to Chip Cooling segment to record highest CAGR during forecast period”

The Direct to Chip Cooling segment is projected to grow at the highest CAGR during the forecast period, driven by its ability to remove heat directly from high-performance processors and GPUs used in AI workloads, HPC, and advanced cloud computing setups. The efficiency of direct to chip cooling solutions surpasses traditional air cooling for thermal management at the source, supporting higher-density racks and overall system performance. The growth of this segment is largely due to the rise of AI-powered data centers, large-scale HPC deployments, and digital transformation initiatives by enterprises. Regions such as North America, Europe, and Asia-Pacific are further boosting adoption, with hyperscale and colocation providers investing heavily in liquid-cooling infrastructure. Direct to chip cooling technologies align with global sustainability and energy-efficiency goals. Besides reducing power consumption, DTC cooling improves operational reliability, making it one of the most in-demand cooling technologies in next-generation data centers.

Hyperscale data centers to record highest CAGR during forecast period”

The Hyperscale Data Center segment is expected to grow at the highest CAGR during the forecast period, driven by rapid expansion in AI, HPC, big data applications, and significant investments from global cloud providers. Traditional air-cooling methods are proving inadequate as hyperscale data centers operate with high rack densities and power demands. Therefore, hyperscale operators are adopting more coolant distribution units to enable efficient liquid cooling, optimize energy use, and ensure reliable heat management for thousands of servers. Regions such as North America, Europe, and Asia-Pacific are leading the way in adoption, as operators aim to scale up while meeting sustainability goals. Coolant distribution units are becoming a crucial technology for next-generation hyperscale data centers, effectively supporting improved thermal efficiency and lowering operating costs.

“North America to account for maximum market share during forecast period”

North America is expected to hold the largest share of the data center coolant distribution units market during the forecast period, primarily due to the well-established ecosystem of hyperscale, colocation, and enterprise data centers. The US is one of the top countries for cloud adoption and AI-driven infrastructure and hosts some of the major liquid-cooling companies, such as Google, Microsoft, Amazon, and Meta, which heavily invest in developing and adopting liquid-cooling technologies for applications

requiring higher rack densities and energy efficiency. Additionally, the strong regulatory focus on sustainability and carbon reduction, along with the availability of advanced cooling technologies and robust infrastructure, further strengthen North America's position in this market. Favorable investment trends, rapid digitalization of sectors, and early adoption of next-generation liquid-cooling technology ensure that North America will continue to dominate the data center coolant distribution units market throughout the forecast period.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level– 30%, Director Level– 40%, and Others – 30%

By Region: North America – 25%, Europe – 30%, Asia Pacific – 35%, South America – 5%, and Middle East & Africa – 5%

Schneider Electric (France), Vertiv Group Corp. (US), Delta Electronics, Inc. (Taiwan), nVent (US), and DCX Liquid Cooling Systems (Poland) are some of the major players in the data center coolant distribution units market. These companies have adopted strategies such as product launches, acquisitions, collaborations, and expansion to grow their market share and revenue.

Research Coverage

The report defines, segments, and estimates the size of the data center coolant distribution units market based on type, cooling type, end user, and region. It strategically profiles key players and thoroughly analyzes their market share and core competencies. It also monitors and examines competitive developments, such as new product development, collaborations, partnerships, acquisitions, and expansions that they undertake in the market.

Reasons to Buy the Report

The report is intended to help both market leaders and new entrants by providing close estimates of revenue figures for the data center coolant distribution units and their segments. It aims to assist stakeholders in understanding the market's competitive landscape, gaining insights to strengthen their business positions, and developing

effective go-to-market strategies. Additionally, it enables stakeholders to understand market trends and provides information on key drivers, restraints, challenges, and opportunities.

The report provides insights into the following points:

Analysis of critical drivers (Growth of high-density AI & HPC workloads), restraints (High capital investments), opportunities (AI-based cooling control and predictive optimization), and challenges (precision control and flow management complexity) influencing the growth of the data center coolant distribution units.

Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities in the data center coolant distribution units.

Market Development: Comprehensive information about lucrative markets – the report analyzes the data center coolant distribution units across varied regions.

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the data center coolant distribution units.

Competitive Assessment: Comprehensive analysis of market shares, growth strategies, and product offerings of leading companies such as DCX Liquid Cooling Systems (Poland), nVent (US), NIDEC CORPORATION (Japan), Schneider Electric (France), Vertiv Group Corp (US), KAORI HEAT TREATMENT CO., LTD. (Taiwan), Shenzhen Envicool Technology Co., Ltd. (China), Boyd (US), Delta Electronics Inc. (Taiwan), Coolcentric (US), Hewlett Packard Enterprise Development LP (US), LiquidStack Holding B.V. (US), Shanghai Venttech Refrigeration Equipment Co., Ltd. (China), Chilldyne Inc. (US), COOLIT SYSTEMS (Canada), Trane (Ireland), Munters Group AB (Sweden), Lenovo (China), Super Micro Computer Inc. (US), STULZ GMBH (Germany), Rittal GmbH & Co. KG (Germany), LITE-ON Technology Corporation (Taiwan), FlaktGroup (Germany), and Nautilus Data Technologies (US) in the data center coolant distribution units.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED AND REGIONAL SCOPE

1.3.2 INCLUSIONS & EXCLUSIONS

1.3.3 YEARS CONSIDERED

1.3.4 CURRENCY CONSIDERED

1.4 LIMITATIONS

1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of interviews with experts

2.2 MATRIX CONSIDERED FOR DEMAND-SIDE ANALYSIS

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

2.4 CALCULATION FOR SUPPLY-SIDE ANALYSIS

2.5 GROWTH FORECAST

2.6 DATA TRIANGULATION

2.7 RESEARCH ASSUMPTIONS

2.8 RESEARCH LIMITATIONS

2.9 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN DATA CENTER COOLANT DISTRIBUTION UNITS MARKET

- 4.2 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE
- 4.3 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE
- 4.4 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TECHNOLOGY AND COUNTRY
- 4.5 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY KEY COUNTRY

5 MARKET OVERVIEW

5.1 MARKET DYNAMICS

5.1.1 DRIVERS

- 5.1.1.1 Growth of high-density AI & HPC workloads
- 5.1.1.2 Demand for modular and edge data centers
- 5.1.1.3 Sustainability and energy efficiency mandates

5.1.2 RESTRAINTS

- 5.1.2.1 High capital investment
- 5.1.2.2 Incompatibility with legacy data center infrastructure

5.1.3 OPPORTUNITIES

- 5.1.3.1 Integration with waste heat recovery systems
- 5.1.3.2 Innovation in nanofluids and next-generation coolants
- 5.1.3.3 AI-based cooling control and predictive optimization

5.1.4 CHALLENGES

- 5.1.4.1 Precision control and flow management complexity
- 5.1.4.2 Integration with diverse cooling architectures

6 INDUSTRY TRENDS

6.1 PORTER'S FIVE FORCES ANALYSIS

- 6.1.1 THREAT OF NEW ENTRANTS
- 6.1.2 THREAT OF SUBSTITUTES
- 6.1.3 BARGAINING POWER OF BUYERS
- 6.1.4 BARGAINING POWER OF SUPPLIERS
- 6.1.5 INTENSITY OF COMPETITIVE RIVALRY

6.2 KEY STAKEHOLDERS AND BUYING CRITERIA

- 6.2.1 KEY STAKEHOLDERS IN BUYING PROCESS
- 6.2.2 BUYING CRITERIA

6.3 VALUE CHAIN ANALYSIS

- 6.3.1 RAW MATERIAL SUPPLIERS
- 6.3.2 COMPONENT MANUFACTURERS
- 6.3.3 SYSTEM ASSEMBLERS/COOLANT DISTRIBUTION UNITS

MANUFACTURERS

6.3.4 OEMS/SYSTEM INTEGRATORS

6.3.5 END USE

6.4 ECOSYSTEM ANALYSIS

6.5 TECHNOLOGY ANALYSIS

6.5.1 KEY TECHNOLOGY

6.5.1.1 Direct-to-Chip Liquid Cooling (D2C)

6.5.1.2 Two-Phase Liquid Cooling

6.5.2 ADJACENT TECHNOLOGY

6.5.2.1 Immersion Cooling Systems

6.5.2.2 Rear Door Heat Exchangers (RDHx)

6.5.3 COMPLEMENTARY TECHNOLOGY

6.5.3.1 Advanced Thermal Interface Materials

6.5.3.2 Thermal Interface Materials (TIMs)

6.6 CASE STUDY ANALYSIS

6.6.1 IMPACT OF COOLANT DISTRIBUTION DESIGN ON SERVER-LEVEL THERMAL MANAGEMENT IN DATA CENTERS

6.6.1.1 Objective

6.6.1.2 Solution Statement

6.6.2 COMMISSIONING OF LIQUID-TO-AIR COOLANT DISTRIBUTION UNITS FOR DIRECT-TO-CHIP DATA CENTER COOLING

6.6.2.1 Objective

6.6.2.2 Solution Statement

6.7 PATENT ANALYSIS

6.7.1 METHODOLOGY

6.8 PRICING ANALYSIS

6.8.1 AVERAGE SELLING PRICE TREND OF DATA CENTER IMMERSION COOLING FLUIDS, BY REGION, 2024

6.8.2 AVERAGE SELLING PRICE TREND OF DATA CENTER COOLANT DISTRIBUTION UNITS, BY KEY PLAYER, 2024

6.8.3 AVERAGE SELLING PRICE TREND OF DATA CENTER COOLANT DISTRIBUTION UNITS, BY TYPE, 2024

6.9 REGULATORY LANDSCAPE

6.9.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.10 KEY CONFERENCES & EVENTS IN 2025

6.11 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

6.12 GLOBAL MACROECONOMIC OUTLOOK

6.12.1 GDP

6.13 INVESTMENT AND FUNDING SCENARIO

6.14 IMPACT OF 2025 US TARIFF

6.14.1 INTRODUCTION

6.15 KEY TARIFF RATES

6.16 PRICE IMPACT ANALYSIS

6.17 IMPACT ON COUNTRY/REGION

6.17.1 US

6.17.2 EUROPE

6.17.3 ASIA PACIFIC

6.18 IMPACT ON END-USE INDUSTRIES

6.19 IMPACT OF AI/GEN AI

6.19.1 INTRODUCTION

6.19.2 SURGE IN THERMAL LOAD FROM AI INFRASTRUCTURE

6.19.3 AI-ENHANCED COOLANT DISTRIBUTION UNITS INTELLIGENCE AND CONTROL

6.19.4 PREDICTIVE MAINTENANCE AND FAULT DETECTION

6.19.5 GENERATIVE AI IN COOLANT DISTRIBUTION UNITS DESIGN AND SIMULATION

6.19.6 DCIM INTEGRATION AND SMART COOLING ORCHESTRATION

6.19.7 COOLANT DISTRIBUTION UNITS MARKET OPPORTUNITY ALIGNED WITH AI DEMAND

7 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE

7.1 INTRODUCTION

7.2 IN-ROW COOLANT DISTRIBUTION UNITS

7.2.1 SPACE-SAVING COOLING SOLUTION WITH TARGETED EFFICIENCY TO SUPPORT HIGH-DENSITY DATA CENTER GROWTH

7.3 IN-RACK COOLANT DISTRIBUTION UNITS

7.3.1 RACK-INTEGRATED COOLING FOR PRECISION FLOW CONTROL IN HIGH-DENSITY DATA CENTERS

7.4 FACILITY DISTRIBUTION UNITS

7.4.1 HIGH-CAPACITY COOLING INFRASTRUCTURE FOR FACILITY-WIDE LIQUID-COOLED DATA CENTERS

8 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE

8.1 INTRODUCTION

8.2 DIRECT TO CHIP COOLING

8.2.1 COMPACT COOLING ARCHITECTURE ACCELERATES INTEGRATION IN HIGH-DENSITY RACKS

8.3 IMMERSION COOLING

8.3.1 IMMERSION COOLING ARCHITECTURE ACCELERATING DEPLOYMENT IN HIGH-DENSITY COMPUTE ENVIRONMENTS

9 DATA CENTER COOLANT DISTRIBUTION MARKET, BY END USE

9.1 INTRODUCTION

9.2 COLOCATION PROVIDERS

9.2.1 ENABLING FLEXIBLE COOLING FOR MULTI-TENANT HIGH-DENSITY ENVIRONMENTS

9.3 ENTERPRISES

9.3.1 HYBRID COOLING TRANSITIONS ACCELERATING ADOPTION

9.4 HYPERSCALE DATA CENTERS

9.4.1 IMMERSION AND DIRECT-TO-CHIP ARCHITECTURES ACCELERATING DEMAND

10 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY PROCESS

10.1 INTRODUCTION

10.2 LIQUID-TO-LIQUID COOLANT DISTRIBUTION UNITS

10.2.1 RISING ADOPTION OF IMMERSION AND DIRECT LIQUID COOLING TECHNOLOGIES

10.3 LIQUID-TO-AIR COOLANT DISTRIBUTION UNITS

10.3.1 INCREASING NEED FOR FLEXIBLE AND MODULAR COOLING IN EDGE COMPUTING AND COLOCATION FACILITIES

11 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY CAPACITY

11.1 INTRODUCTION

11.2 SMALL-SCALE COOLANT DISTRIBUTION UNITS

11.2.1 RISE OF EDGE COMPUTING AND IOT EXPANSION DRIVE MARKET

11.3 MEDIUM-SCALE COOLANT DISTRIBUTION UNITS

11.3.1 RISING ADOPTION OF HYBRID IT AND CLOUD-FIRST STRATEGIES

11.4 LARGE-SCALE COOLANT DISTRIBUTION UNITS

11.4.1 INCREASING DEMAND FOR AI PROCESSING, CLOUD EXPANSION, AND HPC WORKLOADS REQUIRING EXTREME COOLING CAPACITY

12 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY DATA CENTER TYPE

12.1 INTRODUCTION

12.2 SMALL & MID-SIZED DATA CENTERS

12.2.1 INCREASING ADOPTION OF EDGE DATA CENTERS, CLOUD SERVICES BY SMES, AND RISING DEPLOYMENT OF MODULAR DATA CENTERS

12.3 LARGE DATA CENTERS

12.3.1 GROWTH OF HYPERSCALE CLOUD PROVIDERS, AI-DRIVEN WORKLOADS, AND 5G NETWORK EXPANSIONS DRIVES THE MARKET GROWTH

13 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION

13.1 INTRODUCTION

13.2 NORTH AMERICA

13.2.1 US

13.2.1.1 AI infrastructure and sustainability mandates driving growth

13.2.2 CANADA

13.2.2.1 Sustainability policies and modern data center design to drive market

13.2.3 MEXICO

13.2.3.1 Rising infrastructure demands and policy initiatives propelling market

13.3 ASIA PACIFIC

13.3.1 CHINA

13.3.1.1 Policy pressure and infrastructure demands driving market

13.3.2 SOUTH KOREA

13.3.2.1 Digital infrastructure growth and green policies to propel market

13.3.3 JAPAN

13.3.3.1 Urban constraints and high-power server demand

13.3.4 INDIA

13.3.4.1 Power constraints and digital growth accelerating market

13.3.5 MALAYSIA

13.3.5.1 Digital economy growth and government initiatives

13.3.6 SINGAPORE

13.3.6.1 Strategic policy and land constraints accelerating coolant distribution unit adoption

13.3.7 AUSTRALIA

13.3.7.1 Overcoming energy and climate challenges to drive market

13.3.8 REST OF ASIA PACIFIC

13.4 EUROPE

13.4.1 GERMANY

13.4.1.1 Strict regulations and high energy costs accelerate adoption

13.4.2 UK

13.4.2.1 Digital infrastructure growth and green policies to propel market

13.4.3 FRANCE

13.4.3.1 Thermal regulation policies and low-carbon infrastructure regulations driving market

13.4.4 ITALY

13.4.4.1 Smart energy policies and development of new data centers to drive market

13.4.5 SPAIN

13.4.5.1 Digital expansion and climate goals driving demand

13.4.6 REST OF EUROPE

13.5 MIDDLE EAST & AFRICA

13.5.1 GCC COUNTRIES

13.5.1.1 Saudi Arabia

13.5.1.1.1 Mega projects and digital transformation fueling growth

13.5.1.2 Rest of GCC countries

13.5.2 SOUTH AFRICA

13.5.2.1 Data center expansions accelerating growth

13.5.3 REST OF MIDDLE EAST & AFRICA

13.6 SOUTH AMERICA

13.6.1 BRAZIL

13.6.1.1 Data center growth and green innovation driving market

13.6.2 REST OF SOUTH AMERICA

14 COMPETITIVE LANDSCAPE

14.1 INTRODUCTION

14.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

14.3 REVENUE ANALYSIS

14.3.1 REVENUE ANALYSIS OF KEY PLAYERS

14.4 MARKET SHARE ANALYSIS, 2024

14.4.1 MARKET SHARE ANALYSIS

14.4.2 RANKING OF KEY MARKET PLAYERS, 2024

14.5 BRAND/PRODUCT COMPARISON

14.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

14.6.1 STARS

14.6.2 EMERGING LEADERS

14.6.3 PERVASIVE PLAYERS

14.6.4 PARTICIPANTS

14.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

14.6.5.1 Company footprint

14.6.5.2 Region footprint

14.6.5.3 Type footprint

14.6.5.4 Application footprint

14.6.5.5 Process footprint

14.6.5.6 Capacity footprint

14.6.5.7 Data center type footprint

14.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024

14.7.1 PROGRESSIVE COMPANIES

14.7.2 RESPONSIVE COMPANIES

14.7.3 DYNAMIC COMPANIES

14.7.4 STARTING BLOCKS

14.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024

14.7.5.1 Detailed list of key startups/SMES

14.7.5.2 Competitive benchmarking of key startups/SMEs

14.8 COMPETITIVE SCENARIO

14.8.1 PRODUCT LAUNCHES

14.8.2 DEALS

14.8.3 EXPANSIONS

14.9 COMPANY VALUATION AND FINANCIAL METRICS

15 COMPANY PROFILES

15.1 MAJOR PLAYERS

15.1.1 DCX LIQUID COOLING SYSTEMS

15.1.1.1 Business overview

15.1.1.2 Products offered

15.1.1.3 MnM view

15.1.1.3.1 Right to win

15.1.1.3.2 Strategic choices

15.1.1.3.3 Weaknesses and competitive threats

15.1.2 NVENT

15.1.2.1 Business overview

15.1.2.2 Products offered

15.1.2.3 Recent developments

15.1.2.3.1 Product launches

15.1.2.3.2 Deals

- 15.1.2.3.3 Expansions
- 15.1.2.4 MnM view
 - 15.1.2.4.1 Right to win
 - 15.1.2.4.2 Strategic choices
 - 15.1.2.4.3 Weaknesses and competitive threats
- 15.1.3 SCHNEIDER ELECTRIC
 - 15.1.3.1 Business overview
 - 15.1.3.2 Products offered
 - 15.1.3.3 Recent developments
 - 15.1.3.3.1 Deals
 - 15.1.3.3.2 Expansions
 - 15.1.3.4 MnM view
 - 15.1.3.4.1 Key strengths
 - 15.1.3.4.2 Strategic choices
 - 15.1.3.4.3 Weaknesses and competitive threats
- 15.1.4 VERTIV GROUP CORP.
 - 15.1.4.1 Business overview
 - 15.1.4.2 Products offered
 - 15.1.4.3 Recent developments
 - 15.1.4.3.1 Product launches
 - 15.1.4.3.2 Deals
 - 15.1.4.4 MnM view
 - 15.1.4.4.1 Key strengths
 - 15.1.4.4.2 Strategic choices
 - 15.1.4.4.3 Weaknesses and competitive threats
- 15.1.5 DELTA ELECTRONICS, INC.
 - 15.1.5.1 Business overview
 - 15.1.5.2 Products offered
 - 15.1.5.3 MnM view
 - 15.1.5.3.1 Key strengths
 - 15.1.5.3.2 Strategic choices
 - 15.1.5.3.3 Weaknesses and competitive threats
- 15.1.6 NIDEC CORPORATION
 - 15.1.6.1 Business overview
 - 15.1.6.2 Products offered
 - 15.1.6.3 Recent developments
- 15.1.7 KAORI HEAT TREATMENT CO., LTD.
 - 15.1.7.1 Business overview
 - 15.1.7.2 Products offered

15.1.8 SHENZHEN ENVICOOL TECHNOLOGY CO., LTD

- 15.1.8.1 Business overview
- 15.1.8.2 Products offered
- 15.1.8.3 Recent developments
 - 15.1.8.3.1 Deals

15.1.9 BOYD.

- 15.1.9.1 Business overview
- 15.1.9.2 Products offered
- 15.1.9.3 Recent developments
 - 15.1.9.3.1 Product launches

15.1.10 COOLCENTRIC

- 15.1.10.1 Business overview
- 15.1.10.2 Products offered

15.1.11 HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

- 15.1.11.1 Business overview
- 15.1.11.2 Products offered

15.1.12 LIQUIDSTACK HOLDING B.V.

- 15.1.12.1 Business overview
- 15.1.12.2 Products offered
- 15.1.12.3 Recent developments
 - 15.1.12.3.1 Product launches
 - 15.1.12.3.2 Expansions

15.1.13 SHANGHAI VENTTECH REFRIGERATION EQUIPMENT CO., LTD.

- 15.1.13.1 Business overview
- 15.1.13.2 Products offered

15.1.14 CHILLDYNE, INC.

- 15.1.14.1 Business overview
- 15.1.14.2 Products offered

15.1.15 COOLIT SYSTEMS.

- 15.1.15.1 Business overview
- 15.1.15.2 Products offered
- 15.1.15.3 Recent developments
 - 15.1.15.3.1 Product launches
 - 15.1.15.3.2 Deals
 - 15.1.15.3.3 Expansions

15.1.16 MUNTERS GROUP AB

- 15.1.16.1 Business overview
- 15.1.16.2 Products offered
- 15.1.16.3 Recent developments

- 15.1.16.3.1 Deals
- 15.1.17 TRANE TECHNOLOGIES PLC
 - 15.1.17.1 Business overview
 - 15.1.17.2 Products offered
 - 15.1.17.3 Recent developments
 - 15.1.17.3.1 Product launches
- 15.1.18 SUPER MICRO COMPUTER, INC
 - 15.1.18.1 Business overview
 - 15.1.18.2 Products offered
- 15.1.19 LENOVO
 - 15.1.19.1 Business overview
 - 15.1.19.2 Products offered
 - 15.1.19.3 Recent developments
 - 15.1.19.3.1 Deals
- 15.1.20 STULZ GMBH
 - 15.1.20.1 Business overview
 - 15.1.20.2 Products offered
 - 15.1.20.3 Recent developments
 - 15.1.20.3.1 Product launches
 - 15.1.20.3.2 Expansions
- 15.1.21 RITTAL GMBH & CO. KG
 - 15.1.21.1 Business overview
 - 15.1.21.2 Products offered
 - 15.1.21.3 Recent developments
 - 15.1.21.3.1 Product launches
- 15.1.22 LITE-ON TECHNOLOGY CORPORATION
 - 15.1.22.1 Business overview
 - 15.1.22.2 Products offered
 - 15.1.22.3 Recent developments
 - 15.1.22.3.1 Product launches
- 15.1.23 FLAKTGROUP
 - 15.1.23.1 Business overview
 - 15.1.23.2 Products offered
 - 15.1.23.3 Recent developments
 - 15.1.23.3.1 Product launches
- 15.1.24 NAUTILUS DATA TECHNOLOGIES
 - 15.1.24.1 Business overview
 - 15.1.24.2 Products offered
 - 15.1.24.3 Recent developments

15.1.24.3.1 Product launches

15.2 OTHER PLAYERS

15.2.1 NORTEK AIR SOLUTIONS, LLC.

15.2.2 JETCOOL TECHNOLOGIES INC

15.2.3 ENVIRONMENTAL AIR SYSTEMS

15.2.4 LENNOX

15.2.5 EXCOOL LTD.

15.2.6 AIREDALE INTERNATIONAL AIR CONDITIONING LTD.

15.2.7 ATTOM TECHNOLOGY

15.2.8 LNEYA THERMO REFRIGERATION CO., LTD.

15.2.9 CANATEC PTE LTD.

16 ADJACENT AND RELATED MARKETS

16.1 INTRODUCTION

16.2 LIMITATIONS

16.3 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET

INTERCONNECTED MARKET

16.4 DATA CENTER COOLING MARKET: GLOBAL FORECAST TO 2030

16.4.1 MARKET DEFINITION

16.4.2 MARKET OVERVIEW

16.4.2.1 Solution

16.4.2.2 Services

16.5 IMMERSION COOLING MARKET: GLOBAL FORECAST TO 2031

16.5.1 MARKET DEFINITION

16.5.2 MARKET OVERVIEW

16.5.2.1 Single-phase immersion cooling

16.5.2.2 Two-phase immersion cooling

17 APPENDIX

17.1 DISCUSSION GUIDE

17.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

17.3 CUSTOMIZATION OPTIONS

17.4 RELATED REPORTS

17.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT, 2025 VS. 2032

TABLE 2 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 3 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR MAJOR APPLICATIONS (%)

TABLE 4 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

TABLE 5 TABLE 2: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: ECOSYSTEM

TABLE 6 MAJOR PATENTS RELATED TO DATA CENTER COOLANT DISTRIBUTION UNITS, 2014–2024

TABLE 7 AVERAGE SELLING PRICE TREND OF DATA CENTER IMMERSION COOLING FLUIDS, BY REGION, 2024 (USD/LITER)

TABLE 8 AVERAGE SELLING PRICE TREND OF DATA CENTER COOLANT DISTRIBUTION UNITS, BY COMPANY, 2024 (USD THOUSAND)

TABLE 9 AVERAGE SELLING PRICE TREND OF DATA CENTER IMMERSION COOLING FLUIDS, BY TECHNOLOGY, 2024 (USD/LITER)

TABLE 10 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET PRODUCTS MARKET: KEY CONFERENCES & EVENTS

TABLE 14 GLOBAL GDP PER CAPITA, 2014–2024 (USD)

TABLE 15 US ADJUSTED RECIPROCAL TARIFF RATES

TABLE 16 KEY PRODUCT-RELATED TARIFF EFFECTIVE FOR DATA CENTER COOLANT DISTRIBUTION MARKET

TABLE 17 EXPECTED CHANGE IN PRICES AND LIKELY IMPACT ON END-USE MARKET DUE TO TARIFF IMPACT

TABLE 18 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 19 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 20 IN-ROW COOLANT DISTRIBUTION UNITS: DATA CENTER COOLANT

DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 21 IN-ROW COOLANT DISTRIBUTION UNITS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 22 IN-RACK COOLANT DISTRIBUTION UNITS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 23 IN-RACK COOLANT DISTRIBUTION UNITS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 24 FACILITY DISTRIBUTION UNITS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 25 FACILITY DISTRIBUTION UNITS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 26 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)
TABLE 27 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)
TABLE 28 DIRECT TO CHIP COOLING: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 29 DIRECT TO CHIP COOLING: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 30 IMMERSION COOLING: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 31 IMMERSION COOLING: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 32 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2021–2024 (USD MILLION)
TABLE 33 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2025–2032 (USD MILLION)
TABLE 34 COLOCATION PROVIDERS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 35 COLOCATION PROVIDERS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 36 ENTERPRISES: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 37 ENTERPRISES: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)
TABLE 38 HYPERSCALE DATA CENTERS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)
TABLE 39 HYPERSCALE DATA CENTERS: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 40 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2021–2024 (USD MILLION)

TABLE 41 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 42 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 43 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 44 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 45 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 46 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)

TABLE 47 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)

TABLE 48 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END-USE, 2021–2024 (USD MILLION)

TABLE 49 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END-USE, 2025–2032 (USD MILLION)

TABLE 50 US: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 51 US: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 52 CANADA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 53 CANADA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 54 MEXICO: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 55 MEXICO: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 56 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 57 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 58 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 59 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 60 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)

TABLE 61 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)

TABLE 62 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY END USE, 2021–2024 (USD MILLION)

TABLE 63 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY END USE, 2025–2032 (USD MILLION)

TABLE 64 CHINA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 65 CHINA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 66 SOUTH KOREA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 67 SOUTH KOREA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 68 JAPAN: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 69 JAPAN: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 70 INDIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 71 INDIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 72 MALAYSIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 73 MALAYSIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 74 SINGAPORE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 75 SINGAPORE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 76 AUSTRALIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 77 AUSTRALIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 78 REST OF ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 79 REST OF ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 80 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 81 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 82 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 83 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 84 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)

TABLE 85 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)

TABLE 86 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2021–2024 (USD MILLION)

TABLE 87 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2025–2032 (USD MILLION)

TABLE 88 GERMANY: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 89 GERMANY: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 90 UK: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 91 UK: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 92 FRANCE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 93 FRANCE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 94 ITALY: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 95 ITALY: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 96 SPAIN: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 97 SPAIN: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 98 REST OF EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS

MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 99 REST OF EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 100 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 101 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 102 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 103 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 104 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)

TABLE 105 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)

TABLE 106 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2021–2024 (USD MILLION)

TABLE 107 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2025–2032 (USD MILLION)

TABLE 108 SAUDI ARABIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 109 SAUDI ARABIA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 110 REST OF GCC COUNTRIES: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 111 REST OF GCC COUNTRIES: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 112 SOUTH AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 113 SOUTH AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 114 REST OF MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 115 REST OF MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 116 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 117 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 118 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 119 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 120 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2021–2024 (USD MILLION)

TABLE 121 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY COOLING TYPE, 2025–2032 (USD MILLION)

TABLE 122 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2021–2024 (USD MILLION)

TABLE 123 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY END USE, 2025–2032 (USD MILLION)

TABLE 124 BRAZIL: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 125 BRAZIL: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 126 REST OF SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 127 REST OF SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET, BY TYPE, 2025–2032 (USD MILLION)

TABLE 128 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, 2020–2025)

TABLE 129 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DEGREE OF COMPETITION, 2024

TABLE 130 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: REGION FOOTPRINT

TABLE 131 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: TYPE FOOTPRINT

TABLE 132 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: BY APPLICATION

TABLE 133 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: PROCESS FOOTPRINT

TABLE 134 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: CAPACITY FOOTPRINT

TABLE 135 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DATA CENTER TYPE FOOTPRINT

TABLE 136 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 137 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET:

COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES**TABLE 138 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: PRODUCT LAUNCHES, JANUARY 2020– JULY 2025****TABLE 139 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DEALS, JANUARY 2020– JULY 2025****TABLE 140 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: EXPANSIONS, JANUARY 2020–JULY 2025****TABLE 141 DCX LIQUID COOLING SYSTEMS: COMPANY OVERVIEW****TABLE 142 DCX LIQUID COOLING SYSTEMS: PRODUCTS OFFERED****TABLE 143 NVENT: COMPANY OVERVIEW****TABLE 144 NVENT: PRODUCTS OFFERED****TABLE 145 NVENT: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025****TABLE 146 NVENT: DEALS, JANUARY 2020–JULY 2025****TABLE 147 NVENT: EXPANSIONS, JANUARY 2020–JULY 2025****TABLE 148 SCHNEIDER ELECTRIC: COMPANY OVERVIEW****TABLE 149 SCHNEIDER ELECTRIC: PRODUCTS OFFERED****TABLE 150 SCHNEIDER ELECTRIC: DEALS, JANUARY 2020–JULY 2025****TABLE 151 SCHNEIDER ELECTRIC: EXPANSIONS, JANUARY 2020–JULY 2025****TABLE 152 VERTIV GROUP CORP.: PRODUCTS OFFERED****TABLE 153 VERTIV GROUP CORP.: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025****TABLE 154 VERTIV GROUP CORP.: DEALS, JANUARY 2020–JULY 2025****TABLE 155 DELTA ELECTRONICS, INC.: COMPANY OVERVIEW****TABLE 156 DELTA ELECTRONICS, INC.: PRODUCTS OFFERED****TABLE 157 NIDEC CORPORATION: COMPANY OVERVIEW****TABLE 158 NIDEC CORPORATION: PRODUCTS OFFERED****TABLE 159 NIDEC CORPORATION: EXPANSION****TABLE 160 KAORI HEAT TREATMENT CO., LTD.: COMPANY OVERVIEW****TABLE 161 KAORI HEAT TREATMENT CO., LTD.: PRODUCTS OFFERED****TABLE 162 SHENZHEN ENVICOOL TECHNOLOGY CO., LTD: COMPANY OVERVIEW****TABLE 163 SHENZHEN ENVICOOL TECHNOLOGY CO., LTD: PRODUCTS OFFERED****TABLE 164 SHENZHEN ENVICOOL TECHNOLOGY CO., LTD: DEALS, JANUARY 2020–JULY 2025****TABLE 165 BOYD.: COMPANY OVERVIEW****TABLE 166 BOYD.: PRODUCTS OFFERED****TABLE 167 BOYD.: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025****TABLE 168 COOLCENTRIC: COMPANY OVERVIEW**

TABLE 169 COOLCENTRIC: PRODUCTS OFFERED

TABLE 170 HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP: COMPANY OVERVIEW

TABLE 171 HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP: PRODUCTS OFFERED

TABLE 172 LIQUIDSTACK HOLDING B.V.: COMPANY OVERVIEW

TABLE 173 LIQUIDSTACK HOLDING B.V.: PRODUCTS OFFERED

TABLE 174 LIQUIDSTACK HOLDING B.V.: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 175 LIQUIDSTACK HOLDING B.V.: EXPANSIONS, JANUARY 2020–JULY 2025

TABLE 176 SHANGHAI VENTTECH REFRIGERATION EQUIPMENT CO., LTD.: COMPANY OVERVIEW

TABLE 177 SHANGHAI VENTTECH REFRIGERATION EQUIPMENT CO., LTD.: PRODUCTS OFFERED

TABLE 178 CHILLDYNE, INC.: COMPANY OVERVIEW

TABLE 179 CHILLDYNE, INC.: PRODUCTS OFFERED

TABLE 180 COOLIT SYSTEMS.: COMPANY OVERVIEW

TABLE 181 COOLIT SYSTEMS.: PRODUCTS OFFERED

TABLE 182 COOLIT SYSTEMS.: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 183 COOLIT SYSTEMS.: DEALS, JANUARY 2020–JULY 2025

TABLE 184 COOLIT SYSTEMS.: EXPANSIONS, JANUARY 2020–JULY 2025

TABLE 185 MUNTERS GROUP AB: COMPANY OVERVIEW

TABLE 186 MUNTERS GROUP AB: PRODUCTS OFFERED

TABLE 187 MUNTERS GROUP AB: DEALS, JANUARY 2020–JULY 2025

TABLE 188 MUNTERS GROUP AB: EXPANSIONS, JANUARY 2020–JULY 2025

TABLE 189 TRANE TECHNOLOGIES PLC: COMPANY OVERVIEW

TABLE 190 TRANE TECHNOLOGIES PLC: PRODUCTS OFFERED

TABLE 191 TRANE TECHNOLOGIES PLC: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 192 SUPER MICRO COMPUTER, INC.: COMPANY OVERVIEW

TABLE 193 SUPER MICRO COMPUTER, INC.: PRODUCTS OFFERED

TABLE 194 LENOVO: COMPANY OVERVIEW

TABLE 195 LENOVO: PRODUCTS OFFERED

TABLE 196 LENOVO: DEALS, JANUARY 2020–JULY 2025

TABLE 197 STULZ GMBH: COMPANY OVERVIEW

TABLE 198 STULZ GMBH: PRODUCTS OFFERED

TABLE 199 STULZ GMBH: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 200 STULZ GMBH: EXPANSIONS, JANUARY 2020–JULY 2025

TABLE 201 RITTAL GMBH & CO. KG: COMPANY OVERVIEW

TABLE 202 RITTAL GMBH & CO. KG: PRODUCTS OFFERED

TABLE 203 RITTAL GMBH & CO. KG: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 204 LITE-ON TECHNOLOGY CORPORATION: COMPANY OVERVIEW

TABLE 205 LITE-ON TECHNOLOGY CORPORATION: PRODUCTS OFFERED

TABLE 206 LITE-ON TECHNOLOGY CORPORATION: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 207 FLAKTGROUP: COMPANY OVERVIEW

TABLE 208 FLAKTGROUP: PRODUCTS OFFERED

TABLE 209 FLAKTGROUP: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 210 NAUTILUS DATA TECHNOLOGIES: COMPANY OVERVIEW

TABLE 211 NAUTILUS DATA TECHNOLOGIES: PRODUCTS OFFERED

TABLE 212 NAUTILUS DATA TECHNOLOGIES: PRODUCT LAUNCHES, JANUARY 2020–JULY 2025

TABLE 213 NORTEK AIR SOLUTIONS, LLC.: COMPANY OVERVIEW

TABLE 214 JETCOOL TECHNOLOGIES INC: COMPANY OVERVIEW

TABLE 215 ENVIRONMENTAL AIR SYSTEMS: COMPANY OVERVIEW

TABLE 216 LENNOX: COMPANY OVERVIEW

TABLE 217 EXCOOL LTD.: COMPANY OVERVIEW

TABLE 218 AIREDALE INTERNATIONAL AIR CONDITIONING LTD.: COMPANY OVERVIEW

TABLE 219 ATTOM TECHNOLOGY: COMPANY OVERVIEW

TABLE 220 LNEYA THERMO REFRIGERATION CO., LTD.: COMPANY OVERVIEW

TABLE 221 CANATEC PTE LTD.: COMPANY OVERVIEW

TABLE 222 DATA CENTER COOLING MARKET, BY COMPONENT, 2018–2022 (USD MILLION)

TABLE 223 DATA CENTER COOLING MARKET, BY COMPONENT, 2023–2030 (USD MILLION)

TABLE 224 IMMERSION COOLING MARKET, BY TYPE, 2017–2022 (USD MILLION)

TABLE 225 IMMERSION COOLING MARKET, BY TYPE, 2023–2031 (USD MILLION)

List Of Figures

LIST OF FIGURES

FIGURE 1 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SEGMENTATION AND REGIONAL SCOPE

FIGURE 2 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: RESEARCH DESIGN

FIGURE 3 MAIN MATRIX CONSIDERED TO ASSESS DEMAND FOR DATA CENTER COOLANT DISTRIBUTION UNITS

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 6 METHODOLOGY FOR SUPPLY-SIDE SIZING OF DATA CENTER COOLANT DISTRIBUTION UNITS MARKET (1/2)

FIGURE 7 METHODOLOGY FOR SUPPLY-SIDE SIZING OF DATA CENTER COOLANT DISTRIBUTION UNITS MARKET (2/2)

FIGURE 8 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DATA TRIANGULATION

FIGURE 9 FACILITY DISTRIBUTION UNITS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 10 NORTH AMERICA TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD

FIGURE 11 RISING ADOPTION OF LIQUID COOLING TECHNOLOGIES IN DATA CENTERS TO OFFER LUCRATIVE GROWTH OPPORTUNITIES

FIGURE 12 DIRECT TO CHIP COOLING SEGMENT TO REGISTER HIGHER GROWTH DURING FORECAST PERIOD

FIGURE 13 HYPERSCALE DATA CENTERS TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD

FIGURE 14 IN-ROW CDU SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2024

FIGURE 15 SINGAPORE TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD (2025–2032)

FIGURE 16 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 17 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 18 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR MAJOR APPLICATIONS

FIGURE 19 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

FIGURE 20 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: VALUE

CHAIN ANALYSIS

FIGURE 21 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: ECOSYSTEM

FIGURE 22 MAJOR PATENTS RELATED TO DATA CENTER COOLANT DISTRIBUTION UNITS, 2014–2024

FIGURE 23 AVERAGE SELLING PRICE TREND OF DATA CENTER IMMERSION COOLING FLUIDS, BY REGION, 2024 (USD/LITER)

FIGURE 24 AVERAGE SELLING PRICE TREND OF DATA CENTER COOLANT DISTRIBUTION UNITS, BY KEY PLAYER, 2024 (USD THOUSAND)

FIGURE 25 AVERAGE SELLING PRICE TREND OF DATA CENTER COOLANT DISTRIBUTION UNITS, BY TYPE, 2024 (USD THOUSAND)

FIGURE 26 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET-TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 27 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET-INVESTMENT AND FUNDING SCENARIO

FIGURE 28 IN-ROW CDU SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 29 DIRECT TO CHIP COOLING SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 30 HYPERSCALE DATA CENTERS TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 31 NORTH AMERICA TO ACCOUNT FOR LARGEST MARKET SHARE IN 2032

FIGURE 32 NORTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT

FIGURE 33 ASIA PACIFIC: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT

FIGURE 34 EUROPE: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT

FIGURE 35 MIDDLE EAST & AFRICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT

FIGURE 36 SOUTH AMERICA: DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SNAPSHOT

FIGURE 37 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: REVENUE ANALYSIS OF KEY COMPANIES, 2020–2024 (USD BILLION)

FIGURE 38 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET SHARE ANALYSIS, 2024

FIGURE 39 RANKING OF KEY PLAYERS IN COOLANT DISTRIBUTION UNIT

FIGURE 40 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET:

BRAND/PRODUCT COMPARISON**FIGURE 41 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2024****FIGURE 42 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: COMPANY FOOTPRINT****FIGURE 43 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2024****FIGURE 44 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: EV/EBITDA****FIGURE 45 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: ENTERPRISE VALUE (USD BILLION)****FIGURE 46 DATA CENTER COOLANT DISTRIBUTION UNITS MARKET: YEAR-TO-DATE (YTD) PRICE, TOTAL RETURN, AND FIVE-YEAR STOCK BETA OF KEY MANUFACTURERS****FIGURE 47 NVENT: COMPANY SNAPSHOT****FIGURE 48 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT****FIGURE 49 VERTIV GROUP CORP.: COMPANY SNAPSHOT****FIGURE 50 DELTA ELECTRONICS, INC.: COMPANY SNAPSHOT****FIGURE 51 NIDEC CORPORATION: COMPANY SNAPSHOT****FIGURE 52 KAORI HEAT TREATMENT CO., LTD.: COMPANY SNAPSHOT****FIGURE 53 SHENZHEN ENVICOOL TECHNOLOGY CO., LTD: COMPANY SNAPSHOT****FIGURE 54 HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP: COMPANY SNAPSHOT****FIGURE 55 MUNTERS GROUP AB: COMPANY SNAPSHOT****FIGURE 56 TRANE TECHNOLOGIES PLC: COMPANY SNAPSHOT****FIGURE 57 SUPER MICRO COMPUTER, INC.: COMPANY SNAPSHOT****FIGURE 58 LENOVO: COMPANY SNAPSHOT****FIGURE 59 LITE-ON TECHNOLOGY CORPORATION: COMPANY SNAPSHOT**

I would like to order

Product name: Data Center Coolant Distribution Units Market by Type (In-Row, In-Rack, FDU), Cooling Type (Direct to Chip Cooling, Immersion Cooling), End User (Colocation Providers, Enterprises, Hyperscale), and Region Global Forecast to 2032

Product link: <https://marketpublishers.com/r/DE21380382C8EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/DE21380382C8EN.html>