

# Global Coolant Distribution Unit for Data Centers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Coolant Distribution Unit for Data Centers market size is expected to reach \$ 4456 million by 2032, rising at a market growth of 18.1% CAGR during the forecast period (2026-2032).

Coolant Distribution Unit (CDU) is an essential component in liquid cooling systems that distribute coolant or water evenly throughout the system. The CDU regulates and controls the flow of coolant, maintaining the desired temperature and flow rate. It works in conjunction with pumps, radiators, heat exchangers, and control units to ensure the cooling system runs smoothly and efficiently. The CDU also helps keep the system clean by removing impurities from the coolant, preventing clogging and damage to other components in the system. Overall, the CDU is used in data center and plays a critical role in maintaining the proper functioning of liquid cooling systems.

Upstream: The main components of a CDU include pumps, reservoirs, power supplies, control boards, and heat exchangers. Additionally, filters, flow meters, pressure transducers, and other devices are used in managing the operation of the CDU in conjunction with the Server Rack. Downstream: CDUs are primarily used in data centers.

In 2025, global sales of CDU reached approximately 88 K units, with an average global market price of around US\$ 15 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

Coolant distribution unit (CDU) is a system that enables smaller, more efficient, more precise liquid cooling in a data center at rack level, often integrating facility water. The CDU circulates coolant in a closed loop system within the rack on the secondary

(Cooling Application) side and utilizes facility water on the primary (Heat Rejection) side. A CDU has a pump, reservoir, power supply, control board and a heat-exchanger as the key components. Filters, flow meters, pressure transducers, and other devices are also used in managing the operation of the CDU in conjunction with the Server Rack.

With data center workloads ever increasing due to advanced analytics, AI, and the digitization of every process, the average rack power draw has shot up considerably. And, as we know, with more power draw comes more waste heat that needs to be removed from the rack and eventually the white space. Based on this, liquid cooling technology is gradually replacing traditional air cooling technology to provide high performance solutions to data centers. As a key part of liquid cooling system, CDU will benefit from the permeability of liquid cooling in data centers accordingly.

Key players of coolant distribution unit include Vertiv, Schneider Electric, nVent, etc. In addition, many companies are increasing their investment and R & D on cooling distribution unit. With more and more companies enter into the industry, the competition of the industry will be intensified further in the coming years.

For consumption, North America, Asia-Pacific and Europe are the key consumers. Among those regions, China is experiencing fastest growth, stimulated by related policies.

As data center footprints continue to shrink due to urbanization and real estate constraints, optimizing space utilization has become a pressing priority for data center managers. Liquid cooling solutions offer a compact and space-efficient alternative to traditional air cooling systems, enabling data centers to maximize their rack densities and floor space without compromising thermal performance. Moreover, the scalability of liquid cooling systems makes them well-suited for accommodating future growth and expansion. By modularizing cooling infrastructure and deploying liquid cooling units in a distributed manner, data centers can easily scale their cooling capacity in response to changing workload demands. This flexibility not only enhances operational agility but also streamlines the deployment of new IT equipment without the need for extensive retrofitting or reconfiguration.

In an era marked by growing environmental consciousness and stringent energy regulations, data centers are under increasing pressure to enhance their sustainability practices. Liquid cooling technologies present a compelling solution to address these concerns by reducing overall energy consumption and carbon footprint. Unlike air

cooling, which relies on fans to circulate air and dissipate heat, liquid cooling systems leverage the superior thermal conductivity of liquids to efficiently remove heat from IT equipment. This results in lower cooling energy requirements and operational costs, translating into tangible environmental benefits and long-term cost savings for data center operators. Additionally, liquid cooling enables the reuse of waste heat for heating purposes, further maximizing energy efficiency and sustainability efforts.

This report studies the global Coolant Distribution Unit for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Coolant Distribution Unit for Data Centers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Coolant Distribution Unit for Data Centers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Coolant Distribution Unit for Data Centers total production and demand, 2021-2032, (Units)

Global Coolant Distribution Unit for Data Centers total production value, 2021-2032, (USD Million)

Global Coolant Distribution Unit for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Coolant Distribution Unit for Data Centers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Coolant Distribution Unit for Data Centers domestic production, consumption, key domestic manufacturers and share

Global Coolant Distribution Unit for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Coolant Distribution Unit for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Coolant Distribution Unit for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Coolant Distribution Unit for Data Centers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vertiv, Schneider Electric, nVent,

CoolIT Systems, Boyd (Eaton), Envicool, Nortek DCC, Delta Electronics, Coolcentric, Nidec, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Coolant Distribution Unit for Data Centers market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Coolant Distribution Unit for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Coolant Distribution Unit for Data Centers Market, Segmentation by Type:

Liquid to Liquid CDU

Liquid to Air CDU

Global Coolant Distribution Unit for Data Centers Market, Segmentation by Installation Level:

Rack-based CDU

Row-based CDU

Other

Global Coolant Distribution Unit for Data Centers Market, Segmentation by Capacity:

Capacity ? 100kW

Capacity ? 100kW

Global Coolant Distribution Unit for Data Centers Market, Segmentation by Application:

Internet

Telecommunications

Finance

Government

Other

Companies Profiled:

Vertiv

Schneider Electric

nVent

CoolIT Systems

Boyd (Eaton)

Envicool

Nortek DCC

Delta Electronics

Coolcentric

Nidec

DCX

Chillydyne (Daikin)

Kehua Data

**Key Questions Answered:**

1. How big is the global Coolant Distribution Unit for Data Centers market?
2. What is the demand of the global Coolant Distribution Unit for Data Centers market?
3. What is the year over year growth of the global Coolant Distribution Unit for Data Centers market?
4. What is the production and production value of the global Coolant Distribution Unit for Data Centers market?
5. Who are the key producers in the global Coolant Distribution Unit for Data Centers market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Coolant Distribution Unit for Data Centers Introduction
- 1.2 World Coolant Distribution Unit for Data Centers Supply & Forecast
  - 1.2.1 World Coolant Distribution Unit for Data Centers Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Coolant Distribution Unit for Data Centers Production (2021-2032)
  - 1.2.3 World Coolant Distribution Unit for Data Centers Pricing Trends (2021-2032)
- 1.3 World Coolant Distribution Unit for Data Centers Production by Region (Based on Production Site)
  - 1.3.1 World Coolant Distribution Unit for Data Centers Production Value by Region (2021-2032)
  - 1.3.2 World Coolant Distribution Unit for Data Centers Production by Region (2021-2032)
  - 1.3.3 World Coolant Distribution Unit for Data Centers Average Price by Region (2021-2032)
  - 1.3.4 North America Coolant Distribution Unit for Data Centers Production (2021-2032)
  - 1.3.5 Europe Coolant Distribution Unit for Data Centers Production (2021-2032)
  - 1.3.6 China Coolant Distribution Unit for Data Centers Production (2021-2032)
  - 1.3.7 Southeast Asia Coolant Distribution Unit for Data Centers Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Coolant Distribution Unit for Data Centers Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Coolant Distribution Unit for Data Centers Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Coolant Distribution Unit for Data Centers Demand (2021-2032)
- 2.2 World Coolant Distribution Unit for Data Centers Consumption by Region
  - 2.2.1 World Coolant Distribution Unit for Data Centers Consumption by Region (2021-2026)
  - 2.2.2 World Coolant Distribution Unit for Data Centers Consumption Forecast by Region (2027-2032)
- 2.3 United States Coolant Distribution Unit for Data Centers Consumption (2021-2032)
- 2.4 China Coolant Distribution Unit for Data Centers Consumption (2021-2032)
- 2.5 Europe Coolant Distribution Unit for Data Centers Consumption (2021-2032)

- 2.6 Japan Coolant Distribution Unit for Data Centers Consumption (2021-2032)
- 2.7 South Korea Coolant Distribution Unit for Data Centers Consumption (2021-2032)
- 2.8 ASEAN Coolant Distribution Unit for Data Centers Consumption (2021-2032)
- 2.9 India Coolant Distribution Unit for Data Centers Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Coolant Distribution Unit for Data Centers Production Value by Manufacturer (2021-2026)
- 3.2 World Coolant Distribution Unit for Data Centers Production by Manufacturer (2021-2026)
- 3.3 World Coolant Distribution Unit for Data Centers Average Price by Manufacturer (2021-2026)
- 3.4 Coolant Distribution Unit for Data Centers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Coolant Distribution Unit for Data Centers Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Coolant Distribution Unit for Data Centers in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Coolant Distribution Unit for Data Centers in 2025
- 3.6 Coolant Distribution Unit for Data Centers Market: Overall Company Footprint Analysis
  - 3.6.1 Coolant Distribution Unit for Data Centers Market: Region Footprint
  - 3.6.2 Coolant Distribution Unit for Data Centers Market: Company Product Type Footprint
  - 3.6.3 Coolant Distribution Unit for Data Centers Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Coolant Distribution Unit for Data Centers Production Value Comparison

4.1.1 United States VS China: Coolant Distribution Unit for Data Centers Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Coolant Distribution Unit for Data Centers Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Coolant Distribution Unit for Data Centers Production Comparison

4.2.1 United States VS China: Coolant Distribution Unit for Data Centers Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Coolant Distribution Unit for Data Centers Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Coolant Distribution Unit for Data Centers Consumption Comparison

4.3.1 United States VS China: Coolant Distribution Unit for Data Centers Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Coolant Distribution Unit for Data Centers Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Coolant Distribution Unit for Data Centers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Coolant Distribution Unit for Data Centers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Coolant Distribution Unit for Data Centers Production (2021-2026)

4.5 China Based Coolant Distribution Unit for Data Centers Manufacturers and Market Share

4.5.1 China Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Coolant Distribution Unit for Data Centers Production Value (2021-2026)

4.5.3 China Based Manufacturers Coolant Distribution Unit for Data Centers Production (2021-2026)

4.6 Rest of World Based Coolant Distribution Unit for Data Centers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers

Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Coolant Distribution Unit for Data Centers Market Size Overview by Type:  
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Liquid to Liquid CDU

5.2.2 Liquid to Air CDU

5.3 Market Segment by Type

5.3.1 World Coolant Distribution Unit for Data Centers Production by Type (2021-2032)

5.3.2 World Coolant Distribution Unit for Data Centers Production Value by Type  
(2021-2032)

5.3.3 World Coolant Distribution Unit for Data Centers Average Price by Type  
(2021-2032)

## **6 MARKET ANALYSIS BY INSTALLATION LEVEL**

6.1 World Coolant Distribution Unit for Data Centers Market Size Overview by  
Installation Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Installation Level

6.2.1 Rack-based CDU

6.2.2 Row-based CDU

6.2.3 Other

6.3 Market Segment by Installation Level

6.3.1 World Coolant Distribution Unit for Data Centers Production by Installation Level  
(2021-2032)

6.3.2 World Coolant Distribution Unit for Data Centers Production Value by Installation  
Level (2021-2032)

6.3.3 World Coolant Distribution Unit for Data Centers Average Price by Installation  
Level (2021-2032)

## **7 MARKET ANALYSIS BY CAPACITY**

7.1 World Coolant Distribution Unit for Data Centers Market Size Overview by Capacity:  
2021 VS 2025 VS 2032

7.2 Segment Introduction by Capacity

7.2.1 Capacity ? 100kW

7.2.2 Capacity ? 100kW

## 7.3 Market Segment by Capacity

7.3.1 World Coolant Distribution Unit for Data Centers Production by Capacity (2021-2032)

7.3.2 World Coolant Distribution Unit for Data Centers Production Value by Capacity (2021-2032)

7.3.3 World Coolant Distribution Unit for Data Centers Average Price by Capacity (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Coolant Distribution Unit for Data Centers Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

8.2.1 Internet

8.2.2 Telecommunications

8.2.3 Finance

8.2.4 Government

8.2.5 Other

### 8.3 Market Segment by Application

8.3.1 World Coolant Distribution Unit for Data Centers Production by Application (2021-2032)

8.3.2 World Coolant Distribution Unit for Data Centers Production Value by Application (2021-2032)

8.3.3 World Coolant Distribution Unit for Data Centers Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Vertiv

9.1.1 Vertiv Details

9.1.2 Vertiv Major Business

9.1.3 Vertiv Coolant Distribution Unit for Data Centers Product and Services

9.1.4 Vertiv Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Vertiv Recent Developments/Updates

9.1.6 Vertiv Competitive Strengths & Weaknesses

### 9.2 Schneider Electric

9.2.1 Schneider Electric Details

9.2.2 Schneider Electric Major Business

9.2.3 Schneider Electric Coolant Distribution Unit for Data Centers Product and Services

9.2.4 Schneider Electric Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Schneider Electric Recent Developments/Updates

9.2.6 Schneider Electric Competitive Strengths & Weaknesses

9.3 nVent

9.3.1 nVent Details

9.3.2 nVent Major Business

9.3.3 nVent Coolant Distribution Unit for Data Centers Product and Services

9.3.4 nVent Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 nVent Recent Developments/Updates

9.3.6 nVent Competitive Strengths & Weaknesses

9.4 CoolIT Systems

9.4.1 CoolIT Systems Details

9.4.2 CoolIT Systems Major Business

9.4.3 CoolIT Systems Coolant Distribution Unit for Data Centers Product and Services

9.4.4 CoolIT Systems Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 CoolIT Systems Recent Developments/Updates

9.4.6 CoolIT Systems Competitive Strengths & Weaknesses

9.5 Boyd (Eaton)

9.5.1 Boyd (Eaton) Details

9.5.2 Boyd (Eaton) Major Business

9.5.3 Boyd (Eaton) Coolant Distribution Unit for Data Centers Product and Services

9.5.4 Boyd (Eaton) Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Boyd (Eaton) Recent Developments/Updates

9.5.6 Boyd (Eaton) Competitive Strengths & Weaknesses

9.6 Envicool

9.6.1 Envicool Details

9.6.2 Envicool Major Business

9.6.3 Envicool Coolant Distribution Unit for Data Centers Product and Services

9.6.4 Envicool Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Envicool Recent Developments/Updates

9.6.6 Envicool Competitive Strengths & Weaknesses

9.7 Nortek DCC

- 9.7.1 Nortek DCC Details
- 9.7.2 Nortek DCC Major Business
- 9.7.3 Nortek DCC Coolant Distribution Unit for Data Centers Product and Services
- 9.7.4 Nortek DCC Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Nortek DCC Recent Developments/Updates
- 9.7.6 Nortek DCC Competitive Strengths & Weaknesses
- 9.8 Delta Electronics
  - 9.8.1 Delta Electronics Details
  - 9.8.2 Delta Electronics Major Business
  - 9.8.3 Delta Electronics Coolant Distribution Unit for Data Centers Product and Services
  - 9.8.4 Delta Electronics Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Delta Electronics Recent Developments/Updates
  - 9.8.6 Delta Electronics Competitive Strengths & Weaknesses
- 9.9 Coolcentric
  - 9.9.1 Coolcentric Details
  - 9.9.2 Coolcentric Major Business
  - 9.9.3 Coolcentric Coolant Distribution Unit for Data Centers Product and Services
  - 9.9.4 Coolcentric Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Coolcentric Recent Developments/Updates
  - 9.9.6 Coolcentric Competitive Strengths & Weaknesses
- 9.10 Nidec
  - 9.10.1 Nidec Details
  - 9.10.2 Nidec Major Business
  - 9.10.3 Nidec Coolant Distribution Unit for Data Centers Product and Services
  - 9.10.4 Nidec Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Nidec Recent Developments/Updates
  - 9.10.6 Nidec Competitive Strengths & Weaknesses
- 9.11 DCX
  - 9.11.1 DCX Details
  - 9.11.2 DCX Major Business
  - 9.11.3 DCX Coolant Distribution Unit for Data Centers Product and Services
  - 9.11.4 DCX Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 DCX Recent Developments/Updates

- 9.11.6 DCX Competitive Strengths & Weaknesses
- 9.12 Chilldyne (Daikin)
  - 9.12.1 Chilldyne (Daikin) Details
  - 9.12.2 Chilldyne (Daikin) Major Business
  - 9.12.3 Chilldyne (Daikin) Coolant Distribution Unit for Data Centers Product and Services
  - 9.12.4 Chilldyne (Daikin) Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Chilldyne (Daikin) Recent Developments/Updates
  - 9.12.6 Chilldyne (Daikin) Competitive Strengths & Weaknesses
- 9.13 Kehua Data
  - 9.13.1 Kehua Data Details
  - 9.13.2 Kehua Data Major Business
  - 9.13.3 Kehua Data Coolant Distribution Unit for Data Centers Product and Services
  - 9.13.4 Kehua Data Coolant Distribution Unit for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Kehua Data Recent Developments/Updates
  - 9.13.6 Kehua Data Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Coolant Distribution Unit for Data Centers Industry Chain
- 10.2 Coolant Distribution Unit for Data Centers Upstream Analysis
  - 10.2.1 Coolant Distribution Unit for Data Centers Core Raw Materials
  - 10.2.2 Main Manufacturers of Coolant Distribution Unit for Data Centers Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Coolant Distribution Unit for Data Centers Production Mode
- 10.6 Coolant Distribution Unit for Data Centers Procurement Model
- 10.7 Coolant Distribution Unit for Data Centers Industry Sales Model and Sales Channels
  - 10.7.1 Coolant Distribution Unit for Data Centers Sales Model
  - 10.7.2 Coolant Distribution Unit for Data Centers Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Coolant Distribution Unit for Data Centers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Coolant Distribution Unit for Data Centers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Coolant Distribution Unit for Data Centers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Coolant Distribution Unit for Data Centers Production Value Market Share by Region (2021-2026)

Table 5. World Coolant Distribution Unit for Data Centers Production Value Market Share by Region (2027-2032)

Table 6. World Coolant Distribution Unit for Data Centers Production by Region (2021-2026) & (Units)

Table 7. World Coolant Distribution Unit for Data Centers Production by Region (2027-2032) & (Units)

Table 8. World Coolant Distribution Unit for Data Centers Production Market Share by Region (2021-2026)

Table 9. World Coolant Distribution Unit for Data Centers Production Market Share by Region (2027-2032)

Table 10. World Coolant Distribution Unit for Data Centers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Coolant Distribution Unit for Data Centers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Coolant Distribution Unit for Data Centers Major Market Trends

Table 13. World Coolant Distribution Unit for Data Centers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Coolant Distribution Unit for Data Centers Consumption by Region (2021-2026) & (Units)

Table 15. World Coolant Distribution Unit for Data Centers Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Coolant Distribution Unit for Data Centers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Coolant Distribution Unit for Data Centers Producers in 2025

Table 18. World Coolant Distribution Unit for Data Centers Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Coolant Distribution Unit for Data Centers Producers in 2025

Table 20. World Coolant Distribution Unit for Data Centers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Coolant Distribution Unit for Data Centers Company Evaluation Quadrant

Table 22. World Coolant Distribution Unit for Data Centers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Coolant Distribution Unit for Data Centers Production Site of Key Manufacturer

Table 24. Coolant Distribution Unit for Data Centers Market: Company Product Type Footprint

Table 25. Coolant Distribution Unit for Data Centers Market: Company Product Application Footprint

Table 26. Coolant Distribution Unit for Data Centers Competitive Factors

Table 27. Coolant Distribution Unit for Data Centers New Entrant and Capacity Expansion Plans

Table 28. Coolant Distribution Unit for Data Centers Mergers & Acquisitions Activity

Table 29. United States VS China Coolant Distribution Unit for Data Centers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Coolant Distribution Unit for Data Centers Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Coolant Distribution Unit for Data Centers Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Coolant Distribution Unit for Data Centers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Coolant Distribution Unit for Data Centers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Coolant Distribution Unit for Data Centers Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share (2021-2026)

Table 37. China Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Coolant Distribution Unit for Data Centers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Coolant Distribution Unit for Data Centers

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Coolant Distribution Unit for Data Centers Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share (2021-2026)

Table 42. Rest of World Based Coolant Distribution Unit for Data Centers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share (2021-2026)

Table 47. World Coolant Distribution Unit for Data Centers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Coolant Distribution Unit for Data Centers Production by Type (2021-2026) & (Units)

Table 49. World Coolant Distribution Unit for Data Centers Production by Type (2027-2032) & (Units)

Table 50. World Coolant Distribution Unit for Data Centers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Coolant Distribution Unit for Data Centers Production Value by Type (2027-2032) & (USD Million)

Table 52. World Coolant Distribution Unit for Data Centers Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Coolant Distribution Unit for Data Centers Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Coolant Distribution Unit for Data Centers Production Value by Installation Level, (USD Million), 2021 & 2025 & 2032

Table 55. World Coolant Distribution Unit for Data Centers Production by Installation Level (2021-2026) & (Units)

Table 56. World Coolant Distribution Unit for Data Centers Production by Installation Level (2027-2032) & (Units)

Table 57. World Coolant Distribution Unit for Data Centers Production Value by Installation Level (2021-2026) & (USD Million)

Table 58. World Coolant Distribution Unit for Data Centers Production Value by Installation Level (2027-2032) & (USD Million)

Table 59. World Coolant Distribution Unit for Data Centers Average Price by Installation Level (2021-2026) & (US\$/Unit)

Table 60. World Coolant Distribution Unit for Data Centers Average Price by Installation Level (2027-2032) & (US\$/Unit)

Table 61. World Coolant Distribution Unit for Data Centers Production Value by Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Coolant Distribution Unit for Data Centers Production by Capacity (2021-2026) & (Units)

Table 63. World Coolant Distribution Unit for Data Centers Production by Capacity (2027-2032) & (Units)

Table 64. World Coolant Distribution Unit for Data Centers Production Value by Capacity (2021-2026) & (USD Million)

Table 65. World Coolant Distribution Unit for Data Centers Production Value by Capacity (2027-2032) & (USD Million)

Table 66. World Coolant Distribution Unit for Data Centers Average Price by Capacity (2021-2026) & (US\$/Unit)

Table 67. World Coolant Distribution Unit for Data Centers Average Price by Capacity (2027-2032) & (US\$/Unit)

Table 68. World Coolant Distribution Unit for Data Centers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Coolant Distribution Unit for Data Centers Production by Application (2021-2026) & (Units)

Table 70. World Coolant Distribution Unit for Data Centers Production by Application (2027-2032) & (Units)

Table 71. World Coolant Distribution Unit for Data Centers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Coolant Distribution Unit for Data Centers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Coolant Distribution Unit for Data Centers Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Coolant Distribution Unit for Data Centers Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Vertiv Basic Information, Manufacturing Base and Competitors

Table 76. Vertiv Major Business

Table 77. Vertiv Coolant Distribution Unit for Data Centers Product and Services

Table 78. Vertiv Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Vertiv Recent Developments/Updates

- Table 80. Vertiv Competitive Strengths & Weaknesses
- Table 81. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 82. Schneider Electric Major Business
- Table 83. Schneider Electric Coolant Distribution Unit for Data Centers Product and Services
- Table 84. Schneider Electric Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Schneider Electric Recent Developments/Updates
- Table 86. Schneider Electric Competitive Strengths & Weaknesses
- Table 87. nVent Basic Information, Manufacturing Base and Competitors
- Table 88. nVent Major Business
- Table 89. nVent Coolant Distribution Unit for Data Centers Product and Services
- Table 90. nVent Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. nVent Recent Developments/Updates
- Table 92. nVent Competitive Strengths & Weaknesses
- Table 93. CoolIT Systems Basic Information, Manufacturing Base and Competitors
- Table 94. CoolIT Systems Major Business
- Table 95. CoolIT Systems Coolant Distribution Unit for Data Centers Product and Services
- Table 96. CoolIT Systems Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. CoolIT Systems Recent Developments/Updates
- Table 98. CoolIT Systems Competitive Strengths & Weaknesses
- Table 99. Boyd (Eaton) Basic Information, Manufacturing Base and Competitors
- Table 100. Boyd (Eaton) Major Business
- Table 101. Boyd (Eaton) Coolant Distribution Unit for Data Centers Product and Services
- Table 102. Boyd (Eaton) Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Boyd (Eaton) Recent Developments/Updates
- Table 104. Boyd (Eaton) Competitive Strengths & Weaknesses
- Table 105. Envicool Basic Information, Manufacturing Base and Competitors
- Table 106. Envicool Major Business
- Table 107. Envicool Coolant Distribution Unit for Data Centers Product and Services

Table 108. Envicool Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Envicool Recent Developments/Updates

Table 110. Envicool Competitive Strengths & Weaknesses

Table 111. Nortek DCC Basic Information, Manufacturing Base and Competitors

Table 112. Nortek DCC Major Business

Table 113. Nortek DCC Coolant Distribution Unit for Data Centers Product and Services

Table 114. Nortek DCC Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Nortek DCC Recent Developments/Updates

Table 116. Nortek DCC Competitive Strengths & Weaknesses

Table 117. Delta Electronics Basic Information, Manufacturing Base and Competitors

Table 118. Delta Electronics Major Business

Table 119. Delta Electronics Coolant Distribution Unit for Data Centers Product and Services

Table 120. Delta Electronics Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Delta Electronics Recent Developments/Updates

Table 122. Delta Electronics Competitive Strengths & Weaknesses

Table 123. Coolcentric Basic Information, Manufacturing Base and Competitors

Table 124. Coolcentric Major Business

Table 125. Coolcentric Coolant Distribution Unit for Data Centers Product and Services

Table 126. Coolcentric Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Coolcentric Recent Developments/Updates

Table 128. Coolcentric Competitive Strengths & Weaknesses

Table 129. Nidec Basic Information, Manufacturing Base and Competitors

Table 130. Nidec Major Business

Table 131. Nidec Coolant Distribution Unit for Data Centers Product and Services

Table 132. Nidec Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Nidec Recent Developments/Updates

Table 134. Nidec Competitive Strengths & Weaknesses

Table 135. DCX Basic Information, Manufacturing Base and Competitors

Table 136. DCX Major Business

Table 137. DCX Coolant Distribution Unit for Data Centers Product and Services

Table 138. DCX Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. DCX Recent Developments/Updates

Table 140. DCX Competitive Strengths & Weaknesses

Table 141. Chilldyne (Daikin) Basic Information, Manufacturing Base and Competitors

Table 142. Chilldyne (Daikin) Major Business

Table 143. Chilldyne (Daikin) Coolant Distribution Unit for Data Centers Product and Services

Table 144. Chilldyne (Daikin) Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Chilldyne (Daikin) Recent Developments/Updates

Table 146. Chilldyne (Daikin) Competitive Strengths & Weaknesses

Table 147. Kehua Data Basic Information, Manufacturing Base and Competitors

Table 148. Kehua Data Major Business

Table 149. Kehua Data Coolant Distribution Unit for Data Centers Product and Services

Table 150. Kehua Data Coolant Distribution Unit for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Kehua Data Recent Developments/Updates

Table 152. Kehua Data Competitive Strengths & Weaknesses

Table 153. Global Key Players of Coolant Distribution Unit for Data Centers Upstream (Raw Materials)

Table 154. Global Coolant Distribution Unit for Data Centers Typical Customers

Table 155. Coolant Distribution Unit for Data Centers Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Coolant Distribution Unit for Data Centers Picture

Figure 2. World Coolant Distribution Unit for Data Centers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Coolant Distribution Unit for Data Centers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Coolant Distribution Unit for Data Centers Production (2021-2032) & (Units)

Figure 5. World Coolant Distribution Unit for Data Centers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Coolant Distribution Unit for Data Centers Production Value Market Share by Region (2021-2032)

Figure 7. World Coolant Distribution Unit for Data Centers Production Market Share by Region (2021-2032)

Figure 8. North America Coolant Distribution Unit for Data Centers Production (2021-2032) & (Units)

Figure 9. Europe Coolant Distribution Unit for Data Centers Production (2021-2032) & (Units)

Figure 10. China Coolant Distribution Unit for Data Centers Production (2021-2032) & (Units)

Figure 11. Southeast Asia Coolant Distribution Unit for Data Centers Production (2021-2032) & (Units)

Figure 12. Coolant Distribution Unit for Data Centers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 15. World Coolant Distribution Unit for Data Centers Consumption Market Share by Region (2021-2032)

Figure 16. United States Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 17. China Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 18. Europe Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 19. Japan Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 20. South Korea Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 21. ASEAN Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 22. India Coolant Distribution Unit for Data Centers Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Coolant Distribution Unit for Data Centers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Coolant Distribution Unit for Data Centers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Coolant Distribution Unit for Data Centers Markets in 2025

Figure 26. United States VS China: Coolant Distribution Unit for Data Centers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Coolant Distribution Unit for Data Centers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Coolant Distribution Unit for Data Centers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share 2025

Figure 30. China Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Coolant Distribution Unit for Data Centers Production Market Share 2025

Figure 32. World Coolant Distribution Unit for Data Centers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Coolant Distribution Unit for Data Centers Production Value Market Share by Type in 2025

Figure 34. Liquid to Liquid CDU

Figure 35. Liquid to Air CDU

Figure 36. World Coolant Distribution Unit for Data Centers Production Market Share by Type (2021-2032)

Figure 37. World Coolant Distribution Unit for Data Centers Production Value Market Share by Type (2021-2032)

Figure 38. World Coolant Distribution Unit for Data Centers Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Coolant Distribution Unit for Data Centers Production Value by Installation Level, (USD Million), 2021 & 2025 & 2032

Figure 40. World Coolant Distribution Unit for Data Centers Production Value Market

Share by Installation Level in 2025

Figure 41. Rack-based CDU

Figure 42. Row-based CDU

Figure 43. Other

Figure 44. World Coolant Distribution Unit for Data Centers Production Market Share by Installation Level (2021-2032)

Figure 45. World Coolant Distribution Unit for Data Centers Production Value Market Share by Installation Level (2021-2032)

Figure 46. World Coolant Distribution Unit for Data Centers Average Price by Installation Level (2021-2032) & (US\$/Unit)

Figure 47. World Coolant Distribution Unit for Data Centers Production Value by Capacity, (USD Million), 2021 & 2025 & 2032

Figure 48. World Coolant Distribution Unit for Data Centers Production Value Market Share by Capacity in 2025

Figure 49. Capacity ? 100kW

Figure 50. Capacity ? 100kW

Figure 51. World Coolant Distribution Unit for Data Centers Production Market Share by Capacity (2021-2032)

Figure 52. World Coolant Distribution Unit for Data Centers Production Value Market Share by Capacity (2021-2032)

Figure 53. World Coolant Distribution Unit for Data Centers Average Price by Capacity (2021-2032) & (US\$/Unit)

Figure 54. World Coolant Distribution Unit for Data Centers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Coolant Distribution Unit for Data Centers Production Value Market Share by Application in 2025

Figure 56. Internet

Figure 57. Telecommunications

Figure 58. Finance

Figure 59. Government

Figure 60. Other

Figure 61. World Coolant Distribution Unit for Data Centers Production Market Share by Application (2021-2032)

Figure 62. World Coolant Distribution Unit for Data Centers Production Value Market Share by Application (2021-2032)

Figure 63. World Coolant Distribution Unit for Data Centers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Coolant Distribution Unit for Data Centers Industry Chain

Figure 65. Coolant Distribution Unit for Data Centers Procurement Model

Figure 66. Coolant Distribution Unit for Data Centers Sales Model

Figure 67. Coolant Distribution Unit for Data Centers Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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