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Global Rack-based Coolant Distribution Units (CDU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Rack-based Coolant Distribution Units (CDU) market size was valued at US$ 807 million in 2025 and is forecast to a readjusted size of US$ 2548 million by 2032 with a CAGR of 17.7% during review period.

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 plays a critical role in maintaining the proper functioning of liquid cooling systems. Rack-based CDUs are optimized to efficiently and seamlessly integrate into a large, high power device like a data center server chassis. Server rack cooling is easy to use with CDU installation instructions as simple as completing the liquid loop, filling the liquid reservoir tank, and flipping the switch. These systems offer a fast option to upgrade to liquid cooling in a cost effective and reliable package and can be fully self-contained or integrated into available facility 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 usedin managing the operation of the CDU in conjunction with the Server Rack. Downstream: CDUs are primarily used in data centers.

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In 2025, global sales of Rack-based Coolant Distribution Units reached approximately 71 K units, with an average global market price of around US$ 11 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

Fast Market Growth: In the current landscape dominated by AI-driven applications and dense chip architectures, liquid cooling has emerged as a pivotal technology. CDU, as a key part in liquid cooling system, will benefit from the prevalence of AI and high performance computing (HPC). The CDU market is expected to experience fast growth in the coming years.

Intensified Competition: As showing great market potential, many investors and companies have laid their attentions on the CDU market. With more and more companies will enter in the CDU industry, the whole market competition will be intensified in the coming years.

Continued Technology Innovation: CDU include liquid-to-liquid and liquid-to-air types. Though limited in cooling capability compared with liquid-to-liquid CDUs, liquid-to-air CDUs don?t require water pipes, can be installed more easily, and take less space and lower initial cost than liquid-to-liquid CDUs. While although liquid-to-liquid CDUs hold the best cooling performance of all types. They require, among others, pipes to be installed to operate with a facility?s water. More research and technology innovation will be put on liquid-to-liquid CDUs by CDU manufacturers to provide high performance CDU to data centers.

This report is a detailed and comprehensive analysis for global Rack-based Coolant Distribution Units (CDU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rack-based Coolant Distribution Units (CDU) market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

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Global Rack-based Coolant Distribution Units (CDU) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Rack-based Coolant Distribution Units (CDU) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Rack-based Coolant Distribution Units (CDU) market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Rack-based Coolant Distribution Units (CDU)

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rack-based Coolant Distribution Units (CDU) market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Rack-based Coolant Distribution Units (CDU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

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markets.

Market segment by Type

Liquid to Air CDU

Liquid to Liquid CDU

Market segment by Capacity

Capacity ? 100kW

Capacity ? 100kW

Market segment by Deployment Scenario

New Build Data Center Type

Retrofit Data Center Type

Market segment by Application

Internet

Telecommunications

Finance

Government

Other

Major players covered

Vertiv

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Schneider Electric

nVent

CoolIT Systems

Boyd (Eaton)

Envicool

Nortek DCC

Delta Electronics

Coolcentric

Nidec

DCX

Kehua Data

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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Chapter 1, to describe Rack-based Coolant Distribution Units (CDU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rack-based Coolant Distribution Units (CDU), with price, sales quantity, revenue, and global market share of Rack-based Coolant Distribution Units (CDU) from 2021 to 2026.

Chapter 3, the Rack-based Coolant Distribution Units (CDU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rack-based Coolant Distribution Units (CDU) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Rack-based Coolant Distribution Units (CDU) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rack-based Coolant Distribution Units (CDU).

Chapter 14 and 15, to describe Rack-based Coolant Distribution Units (CDU) sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Liquid to Air CDU
  1.3.3 Liquid to Liquid CDU
1.4 Market Analysis by Capacity
  1.4.1 Overview: Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Capacity: 2021 Versus 2025 Versus 2032
  1.4.2 Capacity ? 100kW
  1.4.3 Capacity ? 100kW
1.5 Market Analysis by Deployment Scenario
  1.5.1 Overview: Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Deployment Scenario: 2021 Versus 2025 Versus 2032
  1.5.2 New Build Data Center Type
  1.5.3 Retrofit Data Center Type
1.6 Market Analysis by Application
  1.6.1 Overview: Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Internet
  1.6.3 Telecommunications
  1.6.4 Finance
  1.6.5 Government
  1.6.6 Other
1.7 Global Rack-based Coolant Distribution Units (CDU) Market Size & Forecast
  1.7.1 Global Rack-based Coolant Distribution Units (CDU) Consumption Value (2021 & 2025 & 2032)
  1.7.2 Global Rack-based Coolant Distribution Units (CDU) Sales Quantity (2021-2032)
  1.7.3 Global Rack-based Coolant Distribution Units (CDU) Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Vertiv
  2.1.1 Vertiv Details

2.1.2 Vertiv Major Business
2.1.3 Vertiv Rack-based Coolant Distribution Units (CDU) Product and Services
2.1.4 Vertiv Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Vertiv Recent Developments/Updates
2.2 Schneider Electric
2.2.1 Schneider Electric Details
2.2.2 Schneider Electric Major Business
2.2.3 Schneider Electric Rack-based Coolant Distribution Units (CDU) Product and Services
2.2.4 Schneider Electric Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Schneider Electric Recent Developments/Updates
2.3 nVent
2.3.1 nVent Details
2.3.2 nVent Major Business
2.3.3 nVent Rack-based Coolant Distribution Units (CDU) Product and Services
2.3.4 nVent Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 nVent Recent Developments/Updates
2.4 CoolIT Systems
2.4.1 CoolIT Systems Details
2.4.2 CoolIT Systems Major Business
2.4.3 CoolIT Systems Rack-based Coolant Distribution Units (CDU) Product and Services
2.4.4 CoolIT Systems Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 CoolIT Systems Recent Developments/Updates
2.5 Boyd (Eaton)
2.5.1 Boyd (Eaton) Details
2.5.2 Boyd (Eaton) Major Business
2.5.3 Boyd (Eaton) Rack-based Coolant Distribution Units (CDU) Product and Services
2.5.4 Boyd (Eaton) Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Boyd (Eaton) Recent Developments/Updates
2.6 Envicool
2.6.1 Envicool Details
2.6.2 Envicool Major Business
2.6.3 Envicool Rack-based Coolant Distribution Units (CDU) Product and Services

2.6.4 Envicool Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Envicool Recent Developments/Updates
2.7 Nortek DCC
2.7.1 Nortek DCC Details
2.7.2 Nortek DCC Major Business
2.7.3 Nortek DCC Rack-based Coolant Distribution Units (CDU) Product and Services
2.7.4 Nortek DCC Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Nortek DCC Recent Developments/Updates
2.8 Delta Electronics
2.8.1 Delta Electronics Details
2.8.2 Delta Electronics Major Business
2.8.3 Delta Electronics Rack-based Coolant Distribution Units (CDU) Product and Services
2.8.4 Delta Electronics Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Delta Electronics Recent Developments/Updates
2.9 Coolcentric
2.9.1 Coolcentric Details
2.9.2 Coolcentric Major Business
2.9.3 Coolcentric Rack-based Coolant Distribution Units (CDU) Product and Services
2.9.4 Coolcentric Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Coolcentric Recent Developments/Updates
2.10 Nidec
2.10.1 Nidec Details
2.10.2 Nidec Major Business
2.10.3 Nidec Rack-based Coolant Distribution Units (CDU) Product and Services
2.10.4 Nidec Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Nidec Recent Developments/Updates
2.11 DCX
2.11.1 DCX Details
2.11.2 DCX Major Business
2.11.3 DCX Rack-based Coolant Distribution Units (CDU) Product and Services
2.11.4 DCX Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 DCX Recent Developments/Updates

2.12 Kehua Data
2.12.1 Kehua Data Details
2.12.2 Kehua Data Major Business
2.12.3 Kehua Data Rack-based Coolant Distribution Units (CDU) Product and Services
2.12.4 Kehua Data Rack-based Coolant Distribution Units (CDU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Kehua Data Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: RACK-BASED COOLANT DISTRIBUTION UNITS (CDU) BY MANUFACTURER

3.1 Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Manufacturer (2021-2026)
3.2 Global Rack-based Coolant Distribution Units (CDU) Revenue by Manufacturer (2021-2026)
3.3 Global Rack-based Coolant Distribution Units (CDU) Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Rack-based Coolant Distribution Units (CDU) by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Rack-based Coolant Distribution Units (CDU) Manufacturer Market Share in 2025
3.4.3 Top 6 Rack-based Coolant Distribution Units (CDU) Manufacturer Market Share in 2025
3.5 Rack-based Coolant Distribution Units (CDU) Market: Overall Company Footprint Analysis
3.5.1 Rack-based Coolant Distribution Units (CDU) Market: Region Footprint
3.5.2 Rack-based Coolant Distribution Units (CDU) Market: Company Product Type Footprint
3.5.3 Rack-based Coolant Distribution Units (CDU) Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Rack-based Coolant Distribution Units (CDU) Market Size by Region
4.1.1 Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2021-2032)

4.1.2 Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2021-2032)
4.1.3 Global Rack-based Coolant Distribution Units (CDU) Average Price by Region (2021-2032)
4.2 North America Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032)
4.3 Europe Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032)
4.4 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032)
4.5 South America Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032)
4.6 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
5.2 Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Type (2021-2032)
5.3 Global Rack-based Coolant Distribution Units (CDU) Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)
6.2 Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application (2021-2032)
6.3 Global Rack-based Coolant Distribution Units (CDU) Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
7.2 North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)

7.3 North America Rack-based Coolant Distribution Units (CDU) Market Size by Country
7.3.1 North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2032)
7.3.2 North America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2032)
7.3.3 United States Market Size and Forecast (2021-2032)
7.3.4 Canada Market Size and Forecast (2021-2032)
7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
8.2 Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)
8.3 Europe Rack-based Coolant Distribution Units (CDU) Market Size by Country
8.3.1 Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2032)
8.3.2 Europe Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2032)
8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Market Size by Region
9.3.1 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
10.2 South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)
10.3 South America Rack-based Coolant Distribution Units (CDU) Market Size by Country
10.3.1 South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2032)
10.3.2 South America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Market Size by Country
11.3.1 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

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12.1 Rack-based Coolant Distribution Units (CDU) Market Drivers
12.2 Rack-based Coolant Distribution Units (CDU) Market Restraints
12.3 Rack-based Coolant Distribution Units (CDU) Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Rack-based Coolant Distribution Units (CDU) and Key Manufacturers
13.2 Manufacturing Costs Percentage of Rack-based Coolant Distribution Units (CDU)
13.3 Rack-based Coolant Distribution Units (CDU) Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Rack-based Coolant Distribution Units (CDU) Typical Distributors
14.3 Rack-based Coolant Distribution Units (CDU) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Capacity, (USD Million), 2021 & 2025 & 2032
Table 3. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Deployment Scenario, (USD Million), 2021 & 2025 & 2032
Table 4. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Vertiv Basic Information, Manufacturing Base and Competitors
Table 6. Vertiv Major Business
Table 7. Vertiv Rack-based Coolant Distribution Units (CDU) Product and Services
Table 8. Vertiv Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Vertiv Recent Developments/Updates
Table 10. Schneider Electric Basic Information, Manufacturing Base and Competitors
Table 11. Schneider Electric Major Business
Table 12. Schneider Electric Rack-based Coolant Distribution Units (CDU) Product and Services
Table 13. Schneider Electric Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Schneider Electric Recent Developments/Updates
Table 15. nVent Basic Information, Manufacturing Base and Competitors
Table 16. nVent Major Business
Table 17. nVent Rack-based Coolant Distribution Units (CDU) Product and Services
Table 18. nVent Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. nVent Recent Developments/Updates
Table 20. CoolIT Systems Basic Information, Manufacturing Base and Competitors
Table 21. CoolIT Systems Major Business
Table 22. CoolIT Systems Rack-based Coolant Distribution Units (CDU) Product and Services
Table 23. CoolIT Systems Rack-based Coolant Distribution Units (CDU) Sales Quantity

(Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. CoolIT Systems Recent Developments/Updates
Table 25. Boyd (Eaton) Basic Information, Manufacturing Base and Competitors
Table 26. Boyd (Eaton) Major Business
Table 27. Boyd (Eaton) Rack-based Coolant Distribution Units (CDU) Product and Services
Table 28. Boyd (Eaton) Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Boyd (Eaton) Recent Developments/Updates
Table 30. Envicool Basic Information, Manufacturing Base and Competitors
Table 31. Envicool Major Business
Table 32. Envicool Rack-based Coolant Distribution Units (CDU) Product and Services
Table 33. Envicool Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Envicool Recent Developments/Updates
Table 35. Nortek DCC Basic Information, Manufacturing Base and Competitors
Table 36. Nortek DCC Major Business
Table 37. Nortek DCC Rack-based Coolant Distribution Units (CDU) Product and Services
Table 38. Nortek DCC Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Nortek DCC Recent Developments/Updates
Table 40. Delta Electronics Basic Information, Manufacturing Base and Competitors
Table 41. Delta Electronics Major Business
Table 42. Delta Electronics Rack-based Coolant Distribution Units (CDU) Product and Services
Table 43. Delta Electronics Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Delta Electronics Recent Developments/Updates
Table 45. Coolcentric Basic Information, Manufacturing Base and Competitors
Table 46. Coolcentric Major Business
Table 47. Coolcentric Rack-based Coolant Distribution Units (CDU) Product and Services
Table 48. Coolcentric Rack-based Coolant Distribution Units (CDU) Sales Quantity

(Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Coolcentric Recent Developments/Updates
Table 50. Nidec Basic Information, Manufacturing Base and Competitors
Table 51. Nidec Major Business
Table 52. Nidec Rack-based Coolant Distribution Units (CDU) Product and Services
Table 53. Nidec Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Nidec Recent Developments/Updates
Table 55. DCX Basic Information, Manufacturing Base and Competitors
Table 56. DCX Major Business
Table 57. DCX Rack-based Coolant Distribution Units (CDU) Product and Services
Table 58. DCX Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. DCX Recent Developments/Updates
Table 60. Kehua Data Basic Information, Manufacturing Base and Competitors
Table 61. Kehua Data Major Business
Table 62. Kehua Data Rack-based Coolant Distribution Units (CDU) Product and Services
Table 63. Kehua Data Rack-based Coolant Distribution Units (CDU) Sales Quantity (Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Kehua Data Recent Developments/Updates
Table 65. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Manufacturer (2021-2026) & (Units)
Table 66. Global Rack-based Coolant Distribution Units (CDU) Revenue by Manufacturer (2021-2026) & (USD Million)
Table 67. Global Rack-based Coolant Distribution Units (CDU) Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 68. Market Position of Manufacturers in Rack-based Coolant Distribution Units (CDU), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 69. Head Office and Rack-based Coolant Distribution Units (CDU) Production Site of Key Manufacturer
Table 70. Rack-based Coolant Distribution Units (CDU) Market: Company Product Type Footprint
Table 71. Rack-based Coolant Distribution Units (CDU) Market: Company Product Application Footprint

Table 72. Rack-based Coolant Distribution Units (CDU) New Market Entrants and Barriers to Market Entry
Table 73. Rack-based Coolant Distribution Units (CDU) Mergers, Acquisition, Agreements, and Collaborations
Table 74. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 75. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2021-2026) & (Units)
Table 76. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2027-2032) & (Units)
Table 77. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2021-2026) & (USD Million)
Table 78. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2027-2032) & (USD Million)
Table 79. Global Rack-based Coolant Distribution Units (CDU) Average Price by Region (2021-2026) & (US$/Unit)
Table 80. Global Rack-based Coolant Distribution Units (CDU) Average Price by Region (2027-2032) & (US$/Unit)
Table 81. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 82. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)
Table 83. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Type (2021-2026) & (USD Million)
Table 84. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Type (2027-2032) & (USD Million)
Table 85. Global Rack-based Coolant Distribution Units (CDU) Average Price by Type (2021-2026) & (US$/Unit)
Table 86. Global Rack-based Coolant Distribution Units (CDU) Average Price by Type (2027-2032) & (US$/Unit)
Table 87. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 88. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 89. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application (2021-2026) & (USD Million)
Table 90. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application (2027-2032) & (USD Million)
Table 91. Global Rack-based Coolant Distribution Units (CDU) Average Price by

Application (2021-2026) & (US$/Unit)
Table 92. Global Rack-based Coolant Distribution Units (CDU) Average Price by Application (2027-2032) & (US$/Unit)
Table 93. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 94. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)
Table 95. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 96. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 97. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2026) & (Units)
Table 98. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2027-2032) & (Units)
Table 99. North America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2026) & (USD Million)
Table 100. North America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2027-2032) & (USD Million)
Table 101. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 102. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)
Table 103. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 104. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 105. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2026) & (Units)
Table 106. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2027-2032) & (Units)
Table 107. Europe Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2026) & (USD Million)
Table 108. Europe Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2027-2032) & (USD Million)
Table 109. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 110. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)

Table 111. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 112. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 113. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2021-2026) & (Units)
Table 114. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity by Region (2027-2032) & (Units)
Table 115. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2021-2026) & (USD Million)
Table 116. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value by Region (2027-2032) & (USD Million)
Table 117. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 118. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)
Table 119. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 120. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 121. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2026) & (Units)
Table 122. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2027-2032) & (Units)
Table 123. South America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2026) & (USD Million)
Table 124. South America Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2027-2032) & (USD Million)
Table 125. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2021-2026) & (Units)
Table 126. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Type (2027-2032) & (Units)
Table 127. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2021-2026) & (Units)
Table 128. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Application (2027-2032) & (Units)
Table 129. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity by Country (2021-2026) & (Units)
Table 130. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales

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Quantity by Country (2027-2032) & (Units)
Table 131. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2021-2026) & (USD Million)
Table 132. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value by Country (2027-2032) & (USD Million)
Table 133. Rack-based Coolant Distribution Units (CDU) Raw Material
Table 134. Key Manufacturers of Rack-based Coolant Distribution Units (CDU) Raw Materials
Table 135. Rack-based Coolant Distribution Units (CDU) Typical Distributors
Table 136. Rack-based Coolant Distribution Units (CDU) Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Rack-based Coolant Distribution Units (CDU) Picture
Figure 2. Global Rack-based Coolant Distribution Units (CDU) Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Type in 2025
Figure 4. Liquid to Air CDU Examples
Figure 5. Liquid to Liquid CDU Examples
Figure 6. Global Rack-based Coolant Distribution Units (CDU) Revenue by Capacity, (USD Million), 2021 & 2025 & 2032
Figure 7. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Capacity in 2025
Figure 8. Capacity ? 100kW Examples
Figure 9. Capacity ? 100kW Examples
Figure 10. Global Rack-based Coolant Distribution Units (CDU) Revenue by Deployment Scenario, (USD Million), 2021 & 2025 & 2032
Figure 11. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Deployment Scenario in 2025
Figure 12. New Build Data Center Type Examples
Figure 13. Retrofit Data Center Type Examples
Figure 14. Global Rack-based Coolant Distribution Units (CDU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 15. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Application in 2025
Figure 16. Internet Examples
Figure 17. Telecommunications Examples
Figure 18. Finance Examples
Figure 19. Government Examples
Figure 20. Other Examples
Figure 21. Global Rack-based Coolant Distribution Units (CDU) Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 22. Global Rack-based Coolant Distribution Units (CDU) Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 23. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity (2021-2032) & (Units)
Figure 24. Global Rack-based Coolant Distribution Units (CDU) Price (2021-2032) &

(US$/Unit)
Figure 25. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Manufacturer in 2025
Figure 26. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Manufacturer in 2025
Figure 27. Producer Shipments of Rack-based Coolant Distribution Units (CDU) by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 28. Top 3 Rack-based Coolant Distribution Units (CDU) Manufacturer (Revenue) Market Share in 2025
Figure 29. Top 6 Rack-based Coolant Distribution Units (CDU) Manufacturer (Revenue) Market Share in 2025
Figure 30. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Region (2021-2032)
Figure 31. Global Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Region (2021-2032)
Figure 32. North America Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 33. Europe Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 34. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 35. South America Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 36. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 37. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)
Figure 38. Global Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Type (2021-2032)
Figure 39. Global Rack-based Coolant Distribution Units (CDU) Average Price by Type (2021-2032) & (US$/Unit)
Figure 40. Global Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 41. Global Rack-based Coolant Distribution Units (CDU) Revenue Market Share by Application (2021-2032)
Figure 42. Global Rack-based Coolant Distribution Units (CDU) Average Price by Application (2021-2032) & (US$/Unit)
Figure 43. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 45. North America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Country (2021-2032)
Figure 46. North America Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Country (2021-2032)
Figure 47. United States Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 48. Canada Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 49. Mexico Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 50. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)
Figure 51. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 52. Europe Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Country (2021-2032)
Figure 53. Europe Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Country (2021-2032)
Figure 54. Germany Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 55. France Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 56. United Kingdom Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 57. Russia Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 58. Italy Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 59. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)
Figure 60. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 61. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Region (2021-2032)
Figure 62. Asia-Pacific Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Region (2021-2032)
Figure 63. China Rack-based Coolant Distribution Units (CDU) Consumption Value

(2021-2032) & (USD Million)
Figure 64. Japan Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 65. South Korea Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 66. India Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 67. Southeast Asia Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 68. Australia Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 69. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)
Figure 70. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 71. South America Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Country (2021-2032)
Figure 72. South America Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Country (2021-2032)
Figure 73. Brazil Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 74. Argentina Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 75. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Type (2021-2032)
Figure 76. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Application (2021-2032)
Figure 77. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Sales Quantity Market Share by Country (2021-2032)
Figure 78. Middle East & Africa Rack-based Coolant Distribution Units (CDU) Consumption Value Market Share by Country (2021-2032)
Figure 79. Turkey Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 80. Egypt Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 81. Saudi Arabia Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)
Figure 82. South Africa Rack-based Coolant Distribution Units (CDU) Consumption Value (2021-2032) & (USD Million)

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Figure 83. Rack-based Coolant Distribution Units (CDU) Market Drivers
Figure 84. Rack-based Coolant Distribution Units (CDU) Market Restraints
Figure 85. Rack-based Coolant Distribution Units (CDU) Market Trends
Figure 86. Porters Five Forces Analysis
Figure 87. Manufacturing Cost Structure Analysis of Rack-based Coolant Distribution Units (CDU) in 2025
Figure 88. Manufacturing Process Analysis of Rack-based Coolant Distribution Units (CDU)
Figure 89. Rack-based Coolant Distribution Units (CDU) Industrial Chain
Figure 90. Sales Channel: Direct to End-User vs Distributors
Figure 91. Direct Channel Pros & Cons
Figure 92. Indirect Channel Pros & Cons
Figure 93. Methodology
Figure 94. Research Process and Data Source

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