

# Global 4U Rack-based CDUs Market Research Report 2026(Status and Outlook)

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## Abstracts

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. 4U 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.

**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.

The global 4U Rack-based CDUs market size was estimated at USD 297.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 4U Rack-based CDUs market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global 4U Rack-based CDUs market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the 4U Rack-based CDUs market.

### **Global 4U Rack-based CDUs Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate

product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

nVent  
CoolIT Systems  
Boyd  
Envicool  
Delta Electronics  
Schneider Electric (Motivair)  
Nidec  
DCX

### **Market Segmentation (by Type)**

Liquid to Air CDU  
Liquid to Liquid CDU

### **Market Segmentation (by Application)**

Internet  
Telecommunications  
Finance  
Government  
Other

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa,

Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the 4U Rack-based CDUs Market  
Overview of the regional outlook of the 4U Rack-based CDUs Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the 4U Rack-based CDUs Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the

industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of 4U Rack-based CDUs, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your

marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

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