

Global 4U Rack-based CDUs 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 4U Rack-based CDUs market size was valued at US\$ 361 million in 2025 and is forecast to a readjusted size of US\$ 1139 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. 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.

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 4U Rack-based CDUs reached approximately 32 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 4U Rack-based CDUs 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 4U Rack-based CDUs market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global 4U Rack-based CDUs market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global 4U Rack-based CDUs 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 4U Rack-based CDUs 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 4U Rack-based CDUs

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 4U Rack-based CDUs 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 nVent, CoolIT Systems, Boyd (Eaton), Envicool, Delta Electronics, Schneider Electric, Nidec, DCX, etc.

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

Market Segmentation

4U Rack-based CDUs 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 markets.

Market segment by Type

Liquid to Air CDU

Liquid to Liquid CDU

Market segment by Installation Level

Rack-based CDU

Row-based CDU

Market segment by Capacity

Capacity > 100kW

Capacity < 100kW

Market segment by Application

Internet

Telecommunications

Finance

Government

Other

Major players covered

nVent

CoolIT Systems

Boyd (Eaton)

Envicool

Delta Electronics

Schneider Electric

Nidec

DCX

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:

Chapter 1, to describe 4U Rack-based CDUs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4U Rack-based CDUs, with price, sales quantity, revenue, and global market share of 4U Rack-based CDUs from 2021 to 2026.

Chapter 3, the 4U Rack-based CDUs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4U Rack-based CDUs 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 4U Rack-based CDUs 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 4U Rack-based CDUs.

Chapter 14 and 15, to describe 4U Rack-based CDUs sales channel, distributors, customers, research findings and conclusion.

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