

Global Computer Room Precision Air Conditioning for Data Center Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Computer Room Precision Air Conditioning for Data Center market size was valued at US\$ 3684 million in 2024 and is forecast to a readjusted size of USD 7710 million by 2031 with a CAGR of 11.4% during review period.

Computer Room Precision Air Conditioning (CRPAC) is a specialized cooling system designed to maintain precise temperature, humidity, and airflow control in data centers, server rooms, and other mission-critical IT environments. Unlike standard comfort air conditioning systems, CRPAC units provide high-precision cooling with continuous operation to ensure optimal conditions for IT equipment.

Data centers are focusing on reducing PUE (Power Usage Effectiveness) by adopting high-efficiency CRPAC units.

Use of variable-speed compressors, EC (Electronically Commutated) fans, and AI-driven cooling optimizes power consumption.

Cloud giants (AWS, Google, Microsoft) are increasing hyperscale data center deployments, driving demand for large-scale precision cooling.

Growth in edge computing is increasing the need for compact, modular, and rack-based CRPAC units for small server rooms.

Liquid cooling solutions (chilled water CRPAC, direct-to-chip cooling) are gaining traction for high-density computing.

Hybrid cooling (combining air and liquid cooling) is being adopted for better efficiency.

AI-based predictive maintenance reduces failures and improves cooling efficiency.

IoT-enabled real-time monitoring adjusts cooling dynamically based on heat load.

Machine learning algorithms optimize airflow and temperature distribution.

Adoption of low-GWP refrigerants (R-32, R-454B) to comply with environmental regulations.

Increased use of free cooling and economizers to reduce dependence on mechanical cooling.

Shift toward carbon-neutral data centers is driving innovation in low-energy CRPAC solutions.

This report is a detailed and comprehensive analysis for global Computer Room Precision Air Conditioning for Data Center 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 Computer Room Precision Air Conditioning for Data Center market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2020-2031

Global Computer Room Precision Air Conditioning for Data Center market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2020-2031

Global Computer Room Precision Air Conditioning for Data Center market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity

(K Units), and average selling prices (K US\$/Unit), 2020-2031

Global Computer Room Precision Air Conditioning for Data Center market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K US\$/Unit), 2020-2025

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 Computer Room Precision Air Conditioning for Data Center
- 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 Computer Room Precision Air Conditioning for Data Center 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, Stulz, Envicool, Schneider Electric, Gree, Mitsubishi Electric, Shenling, YMK, Canatal, iTeaq, etc.

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

Market Segmentation

Computer Room Precision Air Conditioning for Data Center market is split by Type and by Application. For the period 2020-2031, 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

Air Cooled

Liquid Cooled

Other

Market segment by Application

Small and Medium Data Center

Large Data Center

Ultra-large Data Center

Major players covered

Vertiv

Stulz

Envicool

Schneider Electric

Gree

Mitsubishi Electric

Shenling

YMK

Canatal

iTeaq

Airsys

Airedale

Market segment by region, regional analysis covers

Global Computer Room Precision Air Conditioning for Data Center Market 2025 by Manufacturers, Regions, Type an...

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 Computer Room Precision Air Conditioning for Data Center product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Computer Room Precision Air Conditioning for Data Center, with price, sales quantity, revenue, and global market share of Computer Room Precision Air Conditioning for Data Center from 2020 to 2025.

Chapter 3, the Computer Room Precision Air Conditioning for Data Center competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Computer Room Precision Air Conditioning for Data Center breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Computer Room Precision Air Conditioning for Data Center market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Computer Room Precision Air Conditioning for Data Center.

Chapter 14 and 15, to describe Computer Room Precision Air Conditioning for Data Center sales channel, distributors, customers, research findings and conclusion.

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