

# Global Cooling Fan for Data Center Server 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 Cooling Fan for Data Center Server market size was valued at US\$ 4345 million in 2025 and is forecast to a readjusted size of US\$ 6374 million by 2032 with a CAGR of 5.7% during review period.

Cooling fans for data center servers are high-reliability air-cooling components installed inside data center servers, fan walls, or hot-swappable fan modules to cool CPUs, GPUs, memory, power supplies, storage drives, switching chips, and system boards. Key indicators include airflow, static pressure, speed, noise, lifetime, PWM control, tachometer feedback, fault alarm, redundancy, and hot-swap capability.

The upstream supply chain mainly covers plastic frames/blades, dual ball bearings, motors and driver/control electronics, and cable/connector assemblies. Downstream customers are server OEMs/ODMs, cloud and hyperscale data centers, storage vendors, and edge-server suppliers.

In 2025, global cooling fans for data center servers production reached approximately 280 million units, with an average global market price is \$20 per unit.

Global cooling fans for data center servers are fundamental but critical components in server thermal-management systems. They provide forced airflow for CPUs, GPUs, memory modules, SSDs, network cards, power supplies, motherboard chipsets and heat sinks, helping servers maintain stable operating temperatures under high-load, continuous-duty conditions. As data centers shift from general-purpose computing toward AI training, AI inference, high-performance computing and high-density cloud workloads, internal server heat flux is rising sharply. Server fans are no longer simple

airflow devices; they are increasingly integrated with chassis airflow design, heat sinks, temperature sensors, BMC control logic, redundant fan walls and rack-level airflow management. The IEA estimates that global data center electricity consumption reached around 415TWh in 2024, about 1.5% of global electricity use, and is projected to nearly double to around 945TWh by 2030; AI-driven accelerated servers are a key factor behind rising data-center power density.

In terms of industry trends, cooling fans for data center servers are moving toward higher speed, higher static pressure, better energy efficiency, lower noise, intelligent speed control, longer service life and modular redundancy. AI servers and GPU servers have higher internal airflow resistance and more complex thermal paths, creating stricter requirements for static pressure, PWM control accuracy, tachometer feedback, fault alarms, bearing life and vibration control. Server platforms are also placing greater emphasis on hot-swappable fan modules, N+1 redundancy, demand-based speed control and predictive maintenance to reduce the operational impact of single-point fan failures. Liquid cooling will not fully eliminate the need for server fans: in direct-to-chip or hybrid cooling architectures, cold plates may remove most CPU/GPU heat, but memory, power supplies, storage, networking modules, motherboard components, rack residual heat and local hotspots may still require fans or controlled airflow. As a result, product development is shifting from simply increasing airflow volume toward precise airflow management coordinated with both air and liquid cooling systems.

The main growth drivers can be summarized in three areas. First, AI computing, cloud services, edge computing and data-center expansion are increasing server power density, creating stronger demand for airflow, static pressure and fast thermal response; IEA data published in 2026 also shows that data-center electricity demand rose by 17% in 2025, with AI-focused data centers growing even faster, and total data-center power use is expected to double by 2030. Second, data-center operators are more sensitive to energy efficiency and total cost of ownership, pushing server fans toward efficient BLDC motors, low-loss bearings, optimized blade geometry, closed-loop control and low-power standby operation; the IEA notes that cooling and environmental control can range from about 7% of total electricity use in efficient hyperscale data centers to over 30% in less-efficient enterprise data centers. Third, higher server reliability requirements are driving continued upgrades in fan lifetime, acoustic performance, vibration control, hot-swap design, fault monitoring and system communication capability. Overall, cooling fans for data center servers are not ordinary small fans; they are key thermal-management components that directly affect cooling safety, energy consumption, acoustic performance and operational reliability in high-density computing infrastructure.

This report is a detailed and comprehensive analysis for global Cooling Fan for Data Center Server 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 Cooling Fan for Data Center Server market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cooling Fan for Data Center Server market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cooling Fan for Data Center Server market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cooling Fan for Data Center Server market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Cooling Fan for Data Center Server

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 Cooling Fan for Data Center Server 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 Delta Electronics, NMB Technologies, Sanyo Denki, Sunonwealth Electric Machine Industry, Nidec Corporation, ADDA Corp, AVC Group, Ebmpapst, Pelonis Technologies, Mechatronics Fan Group, etc.

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

## Market Segmentation

Cooling Fan for Data Center Server 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

Axial Fans

Centrifugal Fans

### Market segment by Size

40mm Class

60mm Class

80mm Class

120mm and Above

### Market segment by Application

Cloud & Hyperscale Servers

AI/GPU Servers

Enterprise Data Center Servers

Storage Servers

Network/Edge Server Equipment

Major players covered

Delta Electronics

NMB Technologies

Sanyo Denki

Sunonwealth Electric Machine Industry

Nidec Corporation

ADDA Corp

AVC Group

Ebmpapst

Pelonis Technologies

Mechatronics Fan Group

Sofasco

YS TECH

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 Cooling Fan for Data Center Server product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cooling Fan for Data Center Server, with price, sales quantity, revenue, and global market share of Cooling Fan for Data Center Server from 2021 to 2026.

Chapter 3, the Cooling Fan for Data Center Server competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cooling Fan for Data Center Server 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 Cooling Fan for Data Center Server 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 Cooling Fan for Data Center Server.

Chapter 14 and 15, to describe Cooling Fan for Data Center Server sales channel, distributors, customers, research findings and conclusion.

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