

# Global DC Axial and Centrifugal Cooling Fans Market Growth 2024-2030

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## Abstracts

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DC axial and centrifugal cooling fans are two distinct types of fans used for cooling purposes in various electronic devices, computers, servers, and industrial equipment. Let's delve into each type:

### DC Axial Cooling Fans:

**Operation:** DC axial fans operate on direct current (DC) power and are designed with blades that rotate around an axis to create airflow in a straight line parallel to the axis of rotation. This design allows them to generate airflow in a direction parallel to the fan's shaft.

**Applications:** DC axial fans are commonly used for applications that require airflow over a large area or surface, such as cooling electronic components, computer systems, and ventilation systems.

**Characteristics:** They typically have a simple design with blades that resemble those of a propeller. Axial fans are efficient at moving large volumes of air but are less effective at generating high static pressure compared to centrifugal fans.

**Features:** DC axial fans often come in various sizes and configurations, with options for speed control and PWM (Pulse Width Modulation) for adjusting fan speed based on cooling requirements.

### DC Centrifugal Cooling Fans:

**Operation:** DC centrifugal fans also operate on direct current (DC) power but employ a centrifugal or radial design, where blades rotate around a central hub and air is forced outward perpendicular to the axis of rotation. This design allows them to generate airflow in a direction perpendicular to the fan's shaft.

**Applications:** DC centrifugal fans are commonly used for applications that require airflow in a specific direction or where higher static pressure is needed, such as cooling electronic enclosures, HVAC systems, and industrial processes.

**Characteristics:** They typically have a more complex design compared to axial fans, with curved blades and a scroll-shaped housing to efficiently convert kinetic energy into pressure. Centrifugal fans are effective at generating high static pressure and directing airflow through ducts or restrictive passages.

**Features:** Similar to axial fans, DC centrifugal fans are available in various sizes and configurations, with options for speed control and PWM for precise airflow management.

In summary, both DC axial and centrifugal cooling fans offer effective cooling solutions for different applications, with axial fans excelling at moving large volumes of air over a wide area and centrifugal fans providing higher static pressure for directing airflow through ducts or confined spaces. The choice between the two depends on factors such as cooling requirements, space constraints, and airflow directionality needed for the specific application.

The global DC Axial and Centrifugal Cooling Fans market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "DC Axial and Centrifugal Cooling Fans Industry Forecast" looks at past sales and reviews total world DC Axial and Centrifugal Cooling Fans sales in 2023, providing a comprehensive analysis by region and market sector of projected DC Axial and Centrifugal Cooling Fans sales for 2024 through 2030. With DC Axial and Centrifugal Cooling Fans sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world DC Axial and Centrifugal Cooling Fans industry.

This Insight Report provides a comprehensive analysis of the global DC Axial and Centrifugal Cooling Fans landscape and highlights key trends related to product

segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on DC Axial and Centrifugal Cooling Fans portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global DC Axial and Centrifugal Cooling Fans market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for DC Axial and Centrifugal Cooling Fans and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global DC Axial and Centrifugal Cooling Fans.

United States market for DC Axial and Centrifugal Cooling Fans is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for DC Axial and Centrifugal Cooling Fans is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for DC Axial and Centrifugal Cooling Fans is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key DC Axial and Centrifugal Cooling Fans players cover Ebm-papst, Delta, NMB, SUNON, Nidec, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of DC Axial and Centrifugal Cooling Fans market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

12 V

24 V

48 V

#### Segmentation by Application:

Servers

Telecom

Home Appliance

Computer and Office Equipment

Automotive

Others

#### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ebm-papst

Delta

NMB

SUNON

Nidec

Sanyo Denki

SPAL Automotive

AVC

ADDA

Denso

### Key Questions Addressed in this Report

What is the 10-year outlook for the global DC Axial and Centrifugal Cooling Fans market?

What factors are driving DC Axial and Centrifugal Cooling Fans market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do DC Axial and Centrifugal Cooling Fans market opportunities vary by end market size?

How does DC Axial and Centrifugal Cooling Fans break out by Type, by Application?

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