

AC Electronically Commutated (EC) Centrifugal Fans Market Forecast to 2030 - Global Analysis by Diameter Size (Below 250mm, 251mm-400mm, 401mm–550mm, and 551mm-700mm), Application (Air Conditioners, Refrigerators, Ventilation systems, Electronic Cabinets, and Others), and Power Range (Below 0.5kW, 0.5–3kW, 3.1-5kW, and Above 5kW)

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Abstracts

The AC electronically commutated (EC) centrifugal fans market is expected to grow from US\$ 1.40 billion in 2022 to US\$ 1.97 billion by 2030; it is estimated to record a CAGR of 4.7% during the forecast period.

The consumer goods market bustles with well-known corporate players and nimble new brands attempting to carve out the next great industry for competitive advantage. Centrifugal fans are among the most efficient and versatile pieces of air-moving equipment. Increasing use of consumer electronics and appliances generates outstanding sales are among the factors contributing to the growing AC electronically commutated (EC) centrifugal fans market size. Further, the growth in sales of consumer electronics can be attributed to increased demand from households, changing lifestyles of individuals, easier access to credit, and rising disposable incomes.

Moreover, integrating AC electronically commutated (EC) centrifugal fans into consumer goods can give manufacturers a competitive advantage. They can differentiate themselves from competitors by offering products equipped with energy-efficient and high-performance cooling and ventilation systems. Centrifugal fans enhance product appeal, attract environmentally conscious consumers, and potentially increase sales and market share. Manufacturers can leverage the advantage of AC electronically

commutated (EC) centrifugal fans to differentiate their products, gain a competitive edge, and capitalize on the growing consumer interest in energy efficiency and sustainability.

Moreover, the rise of connectivity and the Internet of Things (IoT) has significantly impacted the AC electronically commutated (EC) centrifugal fans market. Fans systems can now be integrated into larger building management systems, allowing for centralized control, remote monitoring, and predictive maintenance. Connected centrifugal fans can communicate data such as fan speed, power consumption, and operating status, enabling users to optimize performance, troubleshoot issues, and make informed decisions. IoT integration provides enhanced efficiency, reliability, and ease of management for fan systems. Hence, technological advancements are among the factors contributing to the growing AC electronically commutated (EC) centrifugal fans market size.

North America is one of the most important regions for the adoption and growth of new technologies owing to favorable government policies to boost innovation and strengthen the infrastructure capabilities. Hence, any impact on the growth of industries is expected to affect the economic growth of the region in a negative manner.

Due to the shutdown of businesses and delay in procurement activities in the last six months of 2020, the AC electronically commutated (EC) centrifugal fans market growth is significantly impacted. Moreover, due to the falling GDP, the market will have negative impact on the growth rate of AC electronically commutated (EC) centrifugal fans market. The COVID-19 crisis has drastically upended operations across the value chain, from supplier networks to the customer in manufacturing sector. The COVID-19 outbreak has severely affected these companies in production activities as well as supplying their products to their clients. However, in the coming years, the AC electronically commutated (EC) centrifugal fans market is expected to foresee significant growth opportunities owing to substituting current equipment with innovative energy-efficient motors results in considerable drop in cost and energy usage. Thus, the overall impact of COVID-19 on the AC electronically commutated (EC) centrifugal fans market in European region is low to moderate.

Based on power range, the AC electronically commutated (EC) centrifugal fans market has been segmented into Below 0.5kW, 0.5 to 3 KW, 3.1 to 5 KW, and Above 5kW. The above 5KW segment holds largest AC electronically commutated (EC) centrifugal fans market share in 2022, followed by 3.1 to 5 KW. The 3.1–5kW EC centrifugal fans have industrial applications such as chemical processing, dust collection, dryers, process

cooling, process heating and others, and their demand is rising owing to the need for devices that save power. The EC centrifugal fans are used for various end-user applications, such as ventilation systems and electronic cabinets. With the support of Industry 4.0, which focuses on energy efficiency improvement, energy use optimization, and carbon emissions reduction, the demand for energy-efficient EC centrifugal fans increases. Further, the rise in data has generated the demand for data centers to store, analyze, and compute the data. As data centers work continuously, there is a need for efficient and energy-saving cooling systems such as 3.1–5kW EC centrifugal fans, which leads to its demand and fuels AC electronically commutated (EC) centrifugal fans market growth.

Rosenberg Ventilatoren GmbH; Ebm-papst; Delta Electronics; Ziehl-Abegg; Airt?cnics; Hidria.; PBM Motor and Fan (suzhou)Co Ltd., Ltd.; Simx Ltd.; Shipox Inc; Regal Rexnord Corp; and Continental Fan are among the key AC electronically commutated (EC) centrifugal fans market players profiled during the study on the market. Several other major AC electronically commutated (EC) centrifugal fans market players were studied and analyzed during this market research study.

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