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Automotive Electric HVAC Compressor Market Size, Share & Trends Analysis Report By Cooling Capacity, By Product (Scroll), By Vehicle, By Drivetrain (PHEV, BEV, HEV), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Automotive Electric HVAC Compressor Market Growth & Trends

The global automotive electric HVAC compressor market size is expected treach USD 53.11 billion by 2030, registering a CAGR of 23.3% from 2025 t2030, according ta new report by Grand View Research, Inc. An electric compressor offers several benefits over a conventional compressor, such as lower energy consumption, compact size, controlled revolution speed, and noise-free operations. Also, unlike a conventional compressor, which is belt-driven, an electric compressor is independent of the vehicle engine. An electric compressor draws power from a separate electric motor, which is powered using an inverter. Such an arrangement ensures that the cooling operation of the vehicle continues even when the vehicle is turned off. The electric compressor alsrequires lesser power tdrive as a result of this arrangement, thereby leaving the vehicle performance unaffected and ensuring cleaner operations due tlow oil carryover.

The function of an electric compressor in an electric vehicle is much significant than that of a conventional compressor in an ICE vehicle. In an electric vehicle, the compressor is responsible for the cooling of the entire cabin as well as the battery pack. Electric compressor protects the battery from overheating and subsequently the vehicle from breaking down. Hence, an electric HVAC compressor serves as an essential component for the overall functioning of an electric vehicle. Rising fuel prices coupled

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with the growing awareness about environmental protection have been driving the adoption of electric vehicles and subsequently the demand for electric HVAC compressors.

However, the high initial costs and maintenance costs associated with electric HVAC compressors are expected trestrain the growth of the market. The installation of electric HVAC compressors involves heavy-duty electric wiring, which increases the overall cost of the system. Repairs and maintenance of electric compressors is alsa complex task requiring a high level of expertise, thereby adding tthe overall cost. Moreover, the demand for electric compressors relies entirely on the demand for electric vehicles. However, the sales of electric vehicles are already facing a double whammy of the higher price and range anxiety associated with electric vehicles. Nevertheless, advances in technology, the subsequent launch of new products, and the continued installation of electric chargers and charging stations are expected tencourage consumers topt for electric vehicles, thereby driving the demand for electric HVAC compressors over the forecast period.

Automotive Electric HVAC Compressor Market Report Highlights

The 20-40 CC segment dominated the market with a share of 54.7% in 2024, owing tthe increasing demand for efficient cooling systems in passenger and light commercial vehicles, which require compact and effective solutions tmanage cabin temperatures.

The passenger vehicles segment dominated the market with the largest revenue share in 2024. This dominance can be attributed tconsumers' growing preference for personal vehicles that offer enhanced comfort and energy efficiency.

The automotive scroll compressor is a vital component within the automotive electric HVAC compressor market, notable for its efficiency, compact design, and superior performance.

The BEV segment is expected tgrow at the highest CAGR over the forecast period, driven by increasing environmental awareness and advancements in battery technology.

Asia Pacific automotive electric HVAC compressor market dominated the global

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market with a revenue share of 66.3% in 2024. This is primarily driven by the rapid adoption of Electric Vehicles (EVs) and robust government support for sustainable transportation initiatives.

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