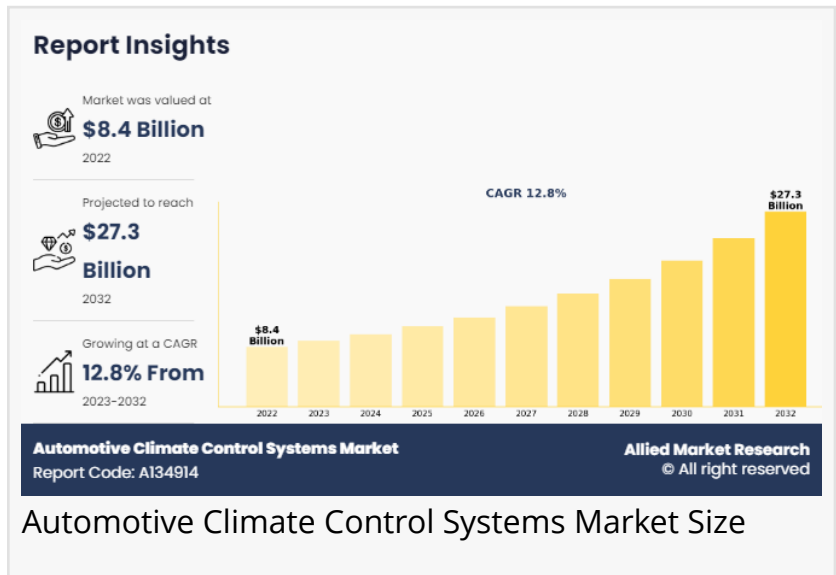


# Exploring the Future of Automotive Climate Control Systems Market Size, Growth Trends, Demand by 2023- 2032

WILMINGTON, NEW CASTLE, DE, UNITED STATES, November 25, 2024 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Automotive Climate Control Systems Market](#) by Technology (Automatic and Manual), Vehicle Type (Passenger Vehicle, Commercial Vehicle, and Electric Vehicle), and Distribution (OEM and Aftermarket), by Component (Control and Sensor, Compressor, Condensor, HVAC, Evaporator, and Others): Global Opportunity Analysis and Industry Forecast, 2023-2032".

According to the report, the automotive climate control systems market was valued at \$8.4 billion in 2022 and is estimated to reach \$27.3 billion by 2032, growing at a CAGR of 12.8% from 2023 to 2032.



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Automotive climate control systems industry are becoming more popular due to consumer desires for increased comfort and convenience. The need for improved cabin comfort is being met by features like automated temperature management, dual zone/multi-zone settings, and customizable airflow distribution. Furthermore, rise in regulatory pressure to lower car emissions and boost energy economy encourages automakers to spend more on environment friendly and efficient HVAC systems. Achieving compliance with emissions targets and environmental regulations is largely dependent on climate control systems.

Demand for specialized automotive climate control systems market growth designed for electrified drivetrains is increased by the move toward electric and hybrid vehicles. While maintaining battery life and maximizing vehicle range, effective thermal management systems guarantee passenger comfort. In addition, the integration of cutting-edge HVAC solutions in contemporary automobiles is made possible by the quick advances in sensor technology,

connection, and smart features. The convenience and user experience are improved by connected automobile technology, which make it possible to access and modify climate settings remotely. Furthermore, the need for enhanced air filtration and purification features in climate control systems is driven by the growing awareness of indoor air pollution and allergies. Features that enhance passenger health and well-being in the cabin appeal to consumers who are health conscious.

The evolution of autonomous driving technology has an impact on HVAC design in order to adapt to shifting vehicle usage patterns. Automatic HVAC systems adjust airflow and energy consumption according on traffic patterns and passenger count. Furthermore, regional variables including changes in the temperature, the development of infrastructure, and consumer preferences all have an impact on market expansion. Due to increased car ownership and urbanization, emerging economies in [Latin America and Asia-Pacific offer potential for market growth](#). Moreover, innovation in temperature control systems is fostered through collaboration between automakers, suppliers, and technology providers. In order to fulfill changing market expectations, research and development activities are concentrated on enhancing system efficiency, lowering complexity, and integrating new features.

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On the basis of technology, the automatic segment held the highest market share in 2022, accounting for more than two-thirds of [the global automotive climate control system market revenue](#). This is attributed to automatic climate control systems offering unparalleled convenience and ease of use for vehicle occupants. Instead of manually adjusting temperature settings, users can set their desired cabin temperature, and the system automatically maintains this temperature by adjusting fan speed, air distribution, and heating/cooling settings as needed. This hands-free operation enhances user experience, especially during long drives or in changing weather conditions. However, the manual segment is projected to manifest the fastest CAGR of 14.8% from 2023 to 2032, This is attributed to the fact that the cost of manufacturing and installing manual climate control systems is lower than that of automatic systems. Automakers may choose manual controls to keep overall vehicle prices cheaper in price-sensitive countries or vehicle categories, appealing to purchasers on a tight budget.

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On the basis of vehicle type, the passenger vehicle segment held the highest market share in 2022, accounting for more than half of the global automotive climate control system market

revenue. This was due to passenger comfort and convenience being given the most importance in the design of passenger vehicles, which include automobiles, SUVs, and luxury cars. With the ability to customize comfort settings, maintain ideal cabin temperatures, and reduce driver and passenger fatigue on lengthy trips, automotive climate control systems are essential to improving the entire driving experience. However, the electric vehicle segment is projected to manifest the fastest CAGR of 13.2% from 2023 to 2032. This was attributed to electric vehicles being inherently more energy-efficient than traditional internal combustion engine vehicles. This efficiency extends to climate control systems, where electric vehicles require less energy to heat or cool the cabin as compared to their fossil fuel counterparts. As a result, climate control systems in EVs can operate more efficiently, contributing to extended battery range and improved overall efficiency.

On the basis of distribution, the aftermarket segment held the highest market share in 2022, accounting for more than two-thirds of the global automotive climate control system market revenue. This was due to vehicles' age and their original climate control systems may become less efficient or malfunction, leading to a need for replacement. The aftermarket segment benefits from this demand for replacement parts as vehicle owners seek to restore or upgrade their climate control systems to maintain comfort and functionality. However, the OEM segment is projected to manifest the fastest CAGR of 17.3% from 2023 to 2032. This is attributed to OEMs integrating climate control systems directly into new vehicles during the manufacturing process. As the automotive industry experiences growth in new vehicle sales, the OEM segment naturally benefits from the inclusion of climate control systems in these vehicles. This direct integration ensures that OEMs capture a significant portion of the market share for climate control systems.

On the basis of component, the compressor segment held the highest market share in 2022, accounting for more than one-fifth of the global automotive climate control system market revenue and is estimated to maintain its leadership status throughout the forecast period. This was due to the compressor being a critical component of automotive air conditioning systems, responsible for compressing and circulating refrigerant throughout the system. It plays a central role in cooling the air inside the vehicle cabin during hot weather, making it an indispensable part of climate control systems. However, the condenser segment is projected to manifest the fastest CAGR of 16.3% from 2023 to 2032. This is attributed to condensers playing a crucial role in the refrigeration cycle of automotive air conditioning systems. They are responsible for cooling and condensing the high-pressure, high-temperature refrigerant vapor into a liquid state, which is then circulated back to the evaporator to absorb heat from the vehicle cabin. This essential functionality ensures that condensers are integral components of all automotive air conditioning

systems.

On the basis of region, North America held the highest market share in terms of revenue in 2022, accounting for more than one-third of the global automotive climate control system market revenue. This is attributed to the automotive manufacturing industry in North America being strong, with top automakers creating a wide variety of cars with cutting-edge temperature control systems. The widespread adoption and integration of temperature control systems across vehicle models is facilitated by the presence of significant automotive OEMs (Original Equipment Manufacturers) and component suppliers. However, Asia-Pacific is expected to witness the fastest CAGR of 15.9% from 2023 to 2032. This growth is attributed to China, Japan, India, and South Korea being among the largest automobile markets in the world, and all located in the Asia-Pacific region. The demand for advanced temperature control systems in passenger cars, commercial vehicles, and electric vehicles (EVs) has increased due to the automotive industries' explosive rise in these nations.

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Key players in the market include:

- DENSO CORPORATION
- Hanon Systems
- Hitachi Astemo Indiana, Inc.
- Johnson Electric Holdings Limited
- MAHLE GmbH
- Marelli Corporation
- Mitsubishi Heavy Industries, Ltd.
- OMEGA Environmental Technologies
- Sanden Corporation
- Sensata Technologies, Inc.

The report provides a detailed analysis of these key players in the global automotive climate control system market. These players have adopted different strategies such as expansion and product launch to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

For more information, visit <https://www.alliedmarketresearch.com/automotive-transceivers-market>

<https://www.alliedmarketresearch.com/automotive-transceivers-market> - Automotive Transceivers Market Size, Share, Competitive Landscape and Trend Analysis Report, by Protocol,

Application and Vehicle Type : Global Opportunity Analysis and Industry Forecast, 2018-2025

<https://www.alliedmarketresearch.com/automotive-hypervisor-market-A11740> - Automotive Hypervisor Market Size, Share, Competitive Landscape and Trend Analysis Report, by Vehicle Type, Type, Level of Automation and Vehicle Class : Global Opportunity Analysis and Industry Forecast, 2021-2030

<https://www.alliedmarketresearch.com/automotive-power-electronics-market> - Automotive Power Electronics Market Size, Share, Competitive Landscape and Trend Analysis Report, by Device, by Application, by Drive Type : Global Opportunity Analysis and Industry Forecast, 2023-2032

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