

## Automotive Climate Control Systems Market worth \$27.3 Billion by 2032, Driven by Smart & Energy-Efficient Technologies

OREGON, DE, UNITED STATES, March 11, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "Automotive Climate Control Systems Market, by Technology (Automatic and Manual), by Vehicle Type (Passenger Vehicle, Commercial Vehicle, and Electric Vehicle), by Distribution (OEM, and Aftermarket), and by Component (Control and Sensor, Compressor, Condenser, HVAC, Evaporator, and Others)"

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

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Demand for specialized <u>automotive climate control systems market growth</u> 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.

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.

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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https://www.alliedmarketresearch.com/automotive-climate-control-systems-market/purchase-options

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, and Sensata Technologies, Inc. They have adopted strategies such as contracts, agreements, acquisition, product launch, and others to improve their market positioning.

The automatic segment attained the highest market share in 2022 in the automotive climate control systems market size. This was attributed to temperature of the cabin, the outside environment, and the amount of sunshine all being continuously monitored by sensors in automotive climate control systems industry. By using this data, the temperature inside the car may be adjusted precisely and accurately to provide the best possible comfort level without the need for human participation. Passengers will always be comfortable because to the system's ability to react fast to temperature changes. Moreover, to maintain a cozy cabin atmosphere, these systems can adjust to changes in the surrounding conditions, such as the amount of sunlight and the outside temperature. Automatic temperature control systems automatically modify settings to maximize passenger comfort and reduce driver attention based on current conditions.

The aftermarket segment attained the highest market share in 2022 in the automotive climate control systems market share. 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. Furthermore, aftermarket manufacturers might offer specialized climate control products tailored to niche markets or specific vehicle models. This could attract consumers looking for unique features or solutions not available from OEMs.

The compressor segment attained the highest market share in 2022 in the automotive climate control systems market analysis. This was attribute to be fact that compressor is 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. Furthermore, compressor technology has evolved significantly over the years, leading to the development of more efficient and reliable compressor designs. Innovations such as variable displacement compressors, scroll compressors, and electric compressors have improved the performance, energy efficiency, and durability of automotive air conditioning systems, driving demand for compressors.

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## Key Findings of the Study

On the basis of technology, the automatic segment is anticipated to exhibit significant growth in the near future.

On the basis of vehicle type, the passenger vehicle segment is anticipated to exhibit significant growth in future.

On the basis of distribution, the aftermarket segment is anticipated to exhibit significant growth in the future.

On the basis of components, the compressor segment is anticipated to exhibit significant growth in the future.

On the basis of region, North America held the largest market share in 2022.

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analysts in the industry.

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