

Global Automotive HVAC Market Size Study & Forecast, by Technology Type (Manual/Semi-automatic HVAC, Automatic HVAC), By Vehicle Type (Passenger Cars, Commercial Vehicles), and Regional Analysis, 2023-2030

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Abstracts

Global Automotive HVAC Market is valued at approximately USD 57.31 billion in 2022 and is anticipated to grow with a growth rate of more than 6.46% over the forecast period 2023-2030. Automotive HVAC (Heating, Ventilation, and Air Conditioning) systems are integral components installed in vehicles to regulate interior temperature, humidity and air quality for passenger comfort. These systems include various components such as compressors, condensers, evaporators, and blowers to cool or heat the cabin air as needed. Advanced features such as automatic climate control and air filtration enhance passenger comfort and convenience. Automotive HVAC systems play a vital role in ensuring a comfortable and safe driving experience by maintaining optimal cabin conditions regardless of external weather conditions. The Automotive HVAC Market is expanding because of factors such as the growing focus on comfort and convenience and stringent environmental regulations and rising emphasis on sustainability.

In addition, the surge in the demand for electric and hybrid vehicles is acting as a catalyzing factor for market growth across the globe. The increasing need for effective HVAC systems designed for electric drivetrains is driven by the growing popularity of electric and hybrid cars, or HEVs. Energy economy, range optimization, and temperature control are given top priority in HVAC systems for electric cars in order to satisfy the special needs of electric propulsion systems. As per Statista, in 2020, the production of a hybrid electric vehicle (HEV) was recorded at 2.9 million units around the world. Also, it is anticipated that the production of HEVs constantly rise and reached

approximately 5.4 million by 2025. Thereby, these aforementioned factors are accelerating the growth of the Automotive HVAC Market at a substantial rate. Furthermore, the rapid increase in technological advancements, coupled with the growing awareness of indoor air quality and health concerns present various lucrative opportunities over the forecast years. However, the high maintenance cost and the low availability to low-income countries are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Automotive HVAC Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the growing focus on comfort and convenience, along with the rise in advancement in automotive technology. Whereas, Asia Pacific region is expected to grow at the highest CAGR over the forecast years. Asia-Pacific market is poised for substantial growth driven by key automotive manufacturers, large-scale vehicle production, and increasing demand in countries such as India, South Korea, and China. Government initiatives aimed at revitalizing the automotive industry such as India's encouragement of foreign investments, are expected to boost the market. China, as a major market, significantly contributes to the demand for automotive HVAC systems. The region's growing preference for passenger vehicles, driven by comfort and safety considerations, is fueling market expansion. Additionally, the rise in high-specification vehicle production by foreign companies in countries like Thailand and Malaysia further supports market growth.

Major market players included in this report are:

Valeo Group

Denso Corporation

Mahle GmbH

Marelli Corporation

Sanden Corporation

Keihin Corporation

Japan Climate Systems Corporation

Mitsubishi Heavy Industries Ltd

Hanon Systems Corp.

Samvardhana Motherson Group

Recent Developments in the Market:

In August 2021, Valeo introduced its innovative New Valeo heat pump, designed to source two-thirds of its energy from the surrounding ambient air. This groundbreaking technology reduces reliance on onboard batteries and employs a natural refrigerant. Electric vehicles (EVs) equipped with this heat pump can extend their travel range by up to 30% even in temperatures as low as -15°C compared to vehicles using traditional heating systems. This advancement represents a significant leap in enhancing the efficiency and performance of EVs, contributing to their wider adoption and sustainability.

In 2021, Marelli Corporation introduced an innovative Indoor Air Quality Purification System designed to eliminate viruses and bacteria within vehicles and indoor spaces. Utilizing a combination of UV-C and UV-A light along with a titanium dioxide filter, the system achieves over 99 percent effectiveness in neutralizing airborne viruses and bacteria, including COVID-19, within 15 minutes. This innovation technology sets a new standard in enhancing air quality and safety for occupants, reflecting Marelli's commitment to innovation and public health.

Global Automotive HVAC Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Technology Type, Vehicle Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology Type:

Manual/Semi-automatic HVAC

Automatic HVAC

By Vehicle Type:

Passenger Cars

Commercial Vehicles

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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