

# Global Automotive Heat Pump Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GBD639551764EN.html>

Date: January 2026

Pages: 110

Price: US\$ 3,480.00 (Single User License)

ID: GBD639551764EN

## Abstracts

According to our (Global Info Research) latest study, the global Automotive Heat Pump Module market size was valued at US\$ 6997 million in 2025 and is forecast to a readjusted size of US\$ 12803 million by 2032 with a CAGR of 9.0% during review period.

In 2025, the global production capacity of automotive heat pump modules was approximately 21.6 million sets, while actual global production reached around 16.2 million sets. The average global market price was about US\$ 420 per vehicle set, and the gross profit margin ranged between 22% and 38%. Production is mainly concentrated in regions with strong automotive thermal management technology and system integration capabilities.

Automotive heat pump modules are integrated thermal management systems used in vehicles to provide efficient heating and cooling for cabins, battery packs, and power electronics. By transferring heat rather than generating it directly, heat pump modules significantly improve energy efficiency, especially in electric vehicles operating in cold climates. These modules typically integrate compressors, heat exchangers, electronic expansion valves, piping, sensors, and control units into compact assemblies optimized for automotive applications.

The industrial chain of automotive heat pump modules includes upstream components such as compressors, heat exchangers, valves, sensors, electronic controllers, and refrigerants. The midstream involves system integration, thermal design, calibration, and module assembly. Downstream applications are mainly electric vehicles, plug-in hybrid vehicles, and advanced energy-efficient passenger cars. Supporting services

include vehicle integration, thermal testing, system optimization, and after-sales technical support.

The automotive heat pump module market is expanding rapidly, driven by the fast growth of electric vehicles and the need to improve energy efficiency and driving range, especially in cold climates. Heat pump systems are increasingly replacing traditional electric heaters due to their superior efficiency. Integration, compact design, and intelligent thermal control are key development trends. Automakers are emphasizing system reliability, cost reduction, and performance consistency across different operating conditions. As regulations push for higher energy efficiency and consumers demand better winter range performance, automotive heat pump modules are expected to see strong and sustained adoption across global EV platforms.

This report is a detailed and comprehensive analysis for global Automotive Heat Pump Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Automotive Heat Pump Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive Heat Pump Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive Heat Pump Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive Heat Pump Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), and ASP (US\$/Set), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Heat Pump Module  
To forecast future growth in each product and end-use market  
To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Heat Pump Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MAHLE, Hanon Systems, Valeo, Denso, Renesas Electronics Corporation, Sanden, MARELLI, BorgWarner, Sanhua Automotive, YINLUN, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Automotive Heat Pump Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Integrated

Split

### Market segment by Refrigerant Type

R134a

R1234yf

CO<sub>2</sub> (R744)

### Market segment by Application

Passenger Vehicles

Commercial Vehicles

Major players covered

MAHLE

Hanon Systems

Valeo

Denso

Renesas Electronics Corporation

Sanden

MARELLI

BorgWarner

Sanhua Automotive

YINLUN

Aotecar

SONGZ

HSAC

Tuopu

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automotive Heat Pump Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Heat Pump Module, with price, sales quantity, revenue, and global market share of Automotive Heat Pump Module from 2021 to 2026.

Chapter 3, the Automotive Heat Pump Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Heat Pump Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive Heat Pump Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Heat Pump Module.

Chapter 14 and 15, to describe Automotive Heat Pump Module sales channel, distributors, customers, research findings and conclusion.

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