

# Global Automotive Heat Pump Module Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Heat Pump Module market size is expected to reach \$ 12803 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

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 studies the global Automotive Heat Pump Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Heat Pump Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Heat Pump Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Heat Pump Module total production and demand, 2021-2032, (K Sets)

Global Automotive Heat Pump Module total production value, 2021-2032, (USD Million)

Global Automotive Heat Pump Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global Automotive Heat Pump Module consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: Automotive Heat Pump Module domestic production, consumption, key domestic manufacturers and share

Global Automotive Heat Pump Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sets)

Global Automotive Heat Pump Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global Automotive Heat Pump Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global Automotive Heat Pump Module market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Heat Pump Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sets) and average price (US\$/Set) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Heat Pump Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Automotive Heat Pump Module Market, Segmentation by Type:

Integrated

Split

#### Global Automotive Heat Pump Module Market, Segmentation by Refrigerant Type:

R134a

R1234yf

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

#### Global Automotive Heat Pump Module Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

#### Companies Profiled:

MAHLE

Hanon Systems

Valeo

Denso

Renesas Electronics Corporation

Sanden

MARELLI

BorgWarner

Sanhua Automotive

YINLUN

Aotecar

SONGZ

HSAC

Tuopu

#### Key Questions Answered:

1. How big is the global Automotive Heat Pump Module market?
2. What is the demand of the global Automotive Heat Pump Module market?
3. What is the year over year growth of the global Automotive Heat Pump Module market?
4. What is the production and production value of the global Automotive Heat Pump Module market?
5. Who are the key producers in the global Automotive Heat Pump Module market?
6. What are the growth factors driving the market demand?

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