

Global Automotive Electric Refrigerant Compressor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1B034FE6A7EEN.html>

Date: July 2026

Pages: 155

Price: US\$ 4,480.00 (Single User License)

ID: G1B034FE6A7EEN

Abstracts

The global Automotive Electric Refrigerant Compressor market size is expected to reach \$ 1879 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Automotive Electric Refrigerant Compressors are electrically driven compressors used in vehicle air conditioning systems to circulate refrigerant, especially in electric and hybrid vehicles where engine-driven compressors are unavailable. They provide cooling for passenger cabins, battery thermal management, and HVAC systems, replacing traditional belt-driven compressors and enabling energy-efficient and independent climate control. The industrial chain of Automotive Electric Refrigerant Compressors includes upstream raw materials such as copper, aluminum, steel, electronic components, magnets, and refrigerant-compatible seals. The midstream consists of compressor manufacturers integrating electric motors, compression mechanisms, control electronics, and housings. Downstream applications include EVs, HEVs, commercial vehicles, and aftermarket HVAC systems. Supporting services include testing, certification, installation support, maintenance, and thermal performance validation. In 2025, global Automotive Electric Refrigerant Compressor production reached approximately 3.75 million units, with an average global price of around US\$280 per unit. The gross profit margin of major companies in the industry is between 20%-38%. In 2025, the global production capacity of Automotive Electric Refrigerant Compressors was approximately 5.0 million units.

The automotive electric refrigerant compressor market is a key component segment for air conditioning systems in EVs and HEVs. Growth is primarily driven by increasing EV and HEV adoption, higher in-vehicle air conditioning demand, and battery thermal management requirements. Electric compressors provide independent cooling without

the need for an engine, ensuring both cabin comfort and battery temperature regulation. Technology trends include high efficiency, low noise, lightweight design, motor integration, and intelligent control to meet EV high-voltage system and energy optimization requirements. As OEMs demand higher energy efficiency, reliability, and lifespan from HVAC systems, market concentration is increasing. Overall, the market is a medium-to-large component segment with stable growth, and production volumes are closely linked to EV and HEV installation rates.

This report studies the global Automotive Electric Refrigerant Compressor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Electric Refrigerant Compressor 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 Electric Refrigerant Compressor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Electric Refrigerant Compressor total production and demand, 2021-2032, (K Units)

Global Automotive Electric Refrigerant Compressor total production value, 2021-2032, (USD Million)

Global Automotive Electric Refrigerant Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Electric Refrigerant Compressor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Electric Refrigerant Compressor domestic production, consumption, key domestic manufacturers and share

Global Automotive Electric Refrigerant Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Electric Refrigerant Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Electric Refrigerant Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Electric Refrigerant Compressor 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 Sanden Corporation, DENSO Corporation, Hanon Systems, Valeo SE, MAHLE GmbH, Marelli Holdings Co., Ltd., Mitsubishi Heavy Industries, Ltd., Panasonic Automotive Systems Co., Ltd., LG Electronics Inc., Aotecar New Energy Technology Co., Ltd., 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 Electric Refrigerant Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Electric Refrigerant Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Electric Refrigerant Compressor Market, Segmentation by Type:

Electric Scroll Compressor

Electric Rotary Compressor

Electric Reciprocating Compressor

Global Automotive Electric Refrigerant Compressor Market, Segmentation by Cooling Capacity:

Below 5 kW Cooling Capacity

5-10 kW Cooling Capacity

Above 10 kW Cooling Capacity

Global Automotive Electric Refrigerant Compressor Market, Segmentation by Voltage Platform:

Low-Voltage Electric Refrigerant Compressor

High-Voltage Electric Refrigerant Compressor

800V Platform Electric Refrigerant Compressor

Global Automotive Electric Refrigerant Compressor Market, Segmentation by Application:

Battery Electric Vehicles

Plug-in Hybrid Electric Vehicles

Hybrid Electric Vehicles

Fuel Cell Vehicles

Companies Profiled:

Sanden Corporation

DENSO Corporation

Hanon Systems

Valeo SE

MAHLE GmbH

Marelli Holdings Co., Ltd.

Mitsubishi Heavy Industries, Ltd.

Panasonic Automotive Systems Co., Ltd.

LG Electronics Inc.

Aotecar New Energy Technology Co., Ltd.

Gree Electric Appliances, Inc. of Zhuhai

BorgWarner Inc.

Toyota Industries Corporation

Zhejiang Sanhua Intelligent Controls Co., Ltd.

Songz Automobile Air Conditioning Co., Ltd.

Xiezhong International Thermal Management System (Jiangsu) Co., Ltd.

Nanjing Yinmao Compressor Co., Ltd.

Key Questions Answered:

1. How big is the global Automotive Electric Refrigerant Compressor market?

2. What is the demand of the global Automotive Electric Refrigerant Compressor market?
3. What is the year over year growth of the global Automotive Electric Refrigerant Compressor market?
4. What is the production and production value of the global Automotive Electric Refrigerant Compressor market?
5. Who are the key producers in the global Automotive Electric Refrigerant Compressor market?
6. What are the growth factors driving the market demand?

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