

Global Automotive Semiconductor Refrigerator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Semiconductor Refrigerator market size is expected to reach \$ 690 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Semiconductor Refrigerator production reached approximately 2.75 million units, with an average global market price of around US\$140 per unit.

An automotive semiconductor refrigerator is a cooling system designed for use in vehicles that utilizes semiconductors to transfer heat. Unlike traditional compressor-based refrigeration systems, semiconductor refrigerators operate by using the Peltier effect, which is the phenomenon where an electric current between two different types of semiconductors creates a heat flux. When one side of the semiconductor junction heats up, the other side cools down. This cooling effect can be harnessed to maintain a desired temperature inside the vehicle, such as preserving food or cooling the passenger compartment. Automotive semiconductor refrigerators are known for their energy efficiency, compact size, and lack of moving parts, making them quieter and more reliable than traditional automotive refrigerators.

Upstream inputs include thermoelectric (Peltier/TEC) modules, thermal hardware (aluminum heatsinks and fans), insulation and enclosures (PP/ABS shells, PU foam, EPP), control and power electronics (DC-DC, temperature-control ICs, MOSFETs/drivers), wiring/connectors, plus seals and structural parts. Representative upstream suppliers include Ferrotec (Peltier/thermoelectric modules) , Custom Thermoelectric (solid-state thermoelectric products) , and Kryotherm (thermoelectric modules/assemblies) , alongside the broader aluminum/plastics/fan and power-electronics supply chain. Midstream players are appliance brands and OEM/ODM manufacturers integrating structure, thermal management, controls/firmware, and reliability validation. Downstream demand comes from aftermarket channels (e-

commerce, camping/outdoor, truck/long-haul users) and OEM in-cabin integrations (e.g., console/armrest cooling boxes), with mass retail platforms such as Walmart showing abundant 12V thermoelectric cooler/warmer offerings and typical price bands.

The industry trend for automotive semiconductor refrigerators is experiencing significant growth due to advancements in semiconductor technology and a growing demand for energy-efficient and lightweight cooling solutions in vehicles. With the rise of electric vehicles (EVs), there is a particular focus on semiconductor refrigeration systems due to their compatibility with EVs and their ability to provide efficient cooling without adding excessive weight to the vehicle. Additionally, the growing demand for advanced driver-assistance systems (ADAS) and autonomous vehicles requires the integration of numerous electronic components, which in turn increases the need for reliable cooling solutions to prevent overheating. This trend is expected to continue as automakers strive to improve vehicle comfort, safety, and overall efficiency by incorporating more semiconductor-based technologies.

This report studies the global Automotive Semiconductor Refrigerator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Semiconductor Refrigerator total production and demand, 2021-2032, (K Units)

Global Automotive Semiconductor Refrigerator total production value, 2021-2032, (USD Million)

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

Global Automotive Semiconductor Refrigerator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Semiconductor Refrigerator domestic production, consumption, key domestic manufacturers and share

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

Global Automotive Semiconductor Refrigerator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Semiconductor Refrigerator production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Semiconductor Refrigerator 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 Dometic, Phononic, Mycoolman, Whynter, Mobicool, Koolatron, Smad Appliances, IndelB, Sawafuji, Colku, 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 Semiconductor Refrigerator 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 Semiconductor Refrigerator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Semiconductor Refrigerator Market, Segmentation by Type:

Less Than 10L

10-20L

More Than 20L

Global Automotive Semiconductor Refrigerator Market, Segmentation by Voltage:

12V

24V

Global Automotive Semiconductor Refrigerator Market, Segmentation by Installation Scenarios:

Portable

Integrated

Global Automotive Semiconductor Refrigerator Market, Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

Companies Profiled:

Dometic

Phononic

Mycoolman

Whynter

Mobicool

Koolatron

Smad Appliances

IndelB

Sawafuji

Colku

Evakool

Alpicool

Setpower

Yutong Electric Appliance

Tingwei Electric Technology

Zhejiang Yunge Electric

Puneda Industrial

Iceco

Genby Tech

EcoFlow

Key Questions Answered:

1. How big is the global Automotive Semiconductor Refrigerator market?
2. What is the demand of the global Automotive Semiconductor Refrigerator market?
3. What is the year over year growth of the global Automotive Semiconductor Refrigerator market?
4. What is the production and production value of the global Automotive Semiconductor Refrigerator market?
5. Who are the key producers in the global Automotive Semiconductor Refrigerator

market?

6. What are the growth factors driving the market demand?

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