+357 96 030922
info@marketpublishers.com

Global Automotive Chiller Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G141A4435A9BEN.html
Date: January 2026
Pages: 108
Price: US$ 4,480.00 (Single User License)
ID: G141A4435A9BEN

Abstracts

The global Automotive Chiller market size is expected to reach $ 5233 million by 2032, rising at a market growth of 25.8% CAGR during the forecast period (2026-2032).
The chiller is a key component of the battery thermal management of pure electric or hybrid vehicles. Its function is to introduce the refrigerant in the air conditioning system, evaporate after the expansion valve throttles, and absorb the heat of the coolant in the battery cooling circuit. During this process, the refrigerant passes through the heat exchange takes away the heat of the coolant and plays a role in cooling the battery. Its structure generally consists of a heat exchanger body, an external evaporator, two coolant inlet and outlet pipes (one in and one out), and two refrigerant pipes (one in and one out).
Upstream inputs include aluminum and brazing materials, sealing/corrosion systems, valves/sensors (EXV, multi-way valves), refrigerants (e.g., R-1234yf / R-744) and water-glycol coolant; midstream value creation centers on plate forming and furnace/vacuum brazing, assembly, leak/cross-leak testing, and automotive-grade durability validation; downstream customers are primarily OEMs and Tier-1 thermal management suppliers or battery-pack integrators, with demand shaped by platform awards and architecture choices (indirect vs direct cooling, heat-pump adoption, and integration level). Pricing is typically a function of heat-transfer performance, pressure drop, integration content, and qualification burden: OEM ASPs are generally in the tens to low-hundreds of USD per vehicle range, while service-market single-part prices can be around the ~$100 level in specific examples (highly model/channel dependent); gross margins tend to increase with integration, customization, and validation barriers (often mid-teens up to ~30%), but can be diluted during ramp-up by aluminum cost volatility, brazing yield, and process-capability investments.
As a core component of the thermal management system for new energy vehicle batteries, the technological evolution and market expansion of automotive chillers are

+357 96 030922
info@marketpublishers.com

deeply bound to the global automotive electrification transformation process, with multiple key factors jointly driving their continuous development. The rapid expansion of the new energy vehicle market is the primary driving force. With the continuous improvement of battery energy density and the popularization of fast-charging technology, the heat generated by batteries during charging and discharging has increased significantly. Failure to dissipate heat in a timely and effective manner will directly affect battery life, lifespan and safety performance, making efficient and stable automotive chillers an essential core supporting component for the entire vehicle. The increasingly strict power battery safety regulations worldwide have further strengthened the industry development direction. Countries around the world have introduced more stringent battery safety standards, clearly requiring battery systems to have reliable thermal runaway protection capabilities under extreme working conditions, forcing enterprises to increase investment in chiller technology research and development and promote products to higher safety redundancy. In addition, the improvement of consumers' demand for the durability and safety of new energy vehicles, as well as the collaborative demand between the thermal management system and the entire vehicle control system under the trend of automotive intelligence, have further prompted continuous optimization of automotive chillers in structural design, material selection and intelligent regulation to adapt to diverse vehicle designs and usage scenarios. Despite the growing market demand for automotive chillers, their technological research and development and industrial application still face many challenges that need to be overcome. The problem of heat dissipation efficiency and adaptability under complex working conditions is particularly prominent. New energy vehicles need to maintain stable battery temperature under various extreme scenarios such as high temperature, low temperature, high-speed driving and long-term fast charging. A single heat dissipation mode is difficult to meet the needs of all working conditions. How to achieve efficient heat dissipation and energy balance in different environments has become the core of technological breakthroughs. The balance between lightweight and heat dissipation performance also plagues the industry. Traditional chiller materials often struggle to meet the vehicle lightweight goal while satisfying heat dissipation needs, and the research and development and mass production processes of new lightweight materials are not yet mature, making it difficult to fully adapt to the large-scale application needs of the industry. In addition, cost control and system integration pressure persist. The high cost of high-end cooling technology and precision manufacturing processes limits their popularity in economical models. At the same time, the compact design trend of battery packs requires chillers to achieve efficient heat dissipation in limited space, and to achieve thermal coupling coordination with cockpit air conditioning, motor electronic control and other systems, which puts higher requirements on the integrated design capabilities of products.

+357 96 030922
info@marketpublishers.com

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Automotive Chiller 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 Valeo, MAHLE GmbH, Zhejiang Sanhua Intelligent Controls, Yinlun Co, Modine Manufacturing, Estra Automotive, Hasco Group, 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 Chiller 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 Chiller Market, By Region:

+357 96 030922
info@marketpublishers.com

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Chiller Market, Segmentation by Type:

Air-Cooled Chiller

Liquid-Cooled Chiller

Global Automotive Chiller Market, Segmentation by Integration Level:

Independent Type

Integrated Type

One-Piece Type

Global Automotive Chiller Market, Segmentation by Downstream Customers:

Vehicle Manufacturers

Battery Pack Integrators

+357 96 030922
info@marketpublishers.com

Others

Global Automotive Chiller Market, Segmentation by Application:

HEV

BEV

Companies Profiled:

Valeo

MAHLE GmbH

Zhejiang Sanhua Intelligent Controls

Yinlun Co

Modine Manufacturing

Estra Automotive

Hasco Group

Key Questions Answered:

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

4 UNITED STATES VS CHINA VS REST OF THE WORLD

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY INTEGRATION LEVEL

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Automotive Chiller Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G141A4435A9BEN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G141A4435A9BEN.html