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Global Refrigerant and Coolant Circuit Integrated Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Refrigerant and Coolant Circuit Integrated Modules market size is expected to reach $ 5642 million by 2032, rising at a market growth of 12.7% CAGR during the forecast period (2026-2032).

In 2025, global Refrigerant and Coolant Circuit Integrated Modules production reached approximately 7026 K Units, with an average global market price of around 274 USD per Unit.

Thermal Management Integrated Modules (TMIMs) are advanced systems designed to efficiently manage the thermal needs of various components within a vehicle, particularly in electric and hybrid vehicles. These modules integrate multiple thermal management functions into a single, compact system, optimizing the vehicle's performance, safety, and energy efficiency.

The upstream raw materials for Refrigerant and Coolant Circuit Integrated Modules mainly include valves (multi-way water valves, shut-off valves, electronic expansion valves, check valves), electronic water pumps, condensers, gas-liquid separators, flow channels, etc. These components are sourced from highly competitive industries, with no monopoly by individual manufacturers or suppliers. TMIM manufacturers do not rely on a single supplier for their main raw materials. Typical raw material suppliers include Sanhua, TGK, Dun'an Artificial Environment, HANON, Egelhof, FUJIKOKI CORPORATION, Ningbo Tuopu Group, etc. Downstream applications are primarily with BEV and PHEV OEMs, with typical downstream customers including Tesla, BYD, Li Auto, NIO, XPeng, Volkswagen, GM, GAC, Geely, Volvo, etc.

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The single-line capacity of Refrigerant and Coolant Circuit Integrated Modules varies greatly depending on the technology route, product integration level, and factory automation level. The industry gross profit margin is usually in the range of 15%-25%.

Compared to traditional gasoline vehicles, the main difference in electric vehicles lies in the replacement of the gasoline engine system with three key components (battery, motor, and electronic control). Correspondingly, the engine cooling system becomes the power battery thermal management and motor/electronic control cooling system. While the original air conditioning system is retained, the loss of the original energy source?the engine?results in significant changes to its main components. The electric vehicle thermal management system comprises three parts: cabin thermal management (heating and cooling), battery system thermal management (heating and cooling), and motor/electronic control cooling. Early on, due to limitations in the electric vehicle architecture and insufficient integration capabilities of component suppliers, the various subsystems of electric vehicle thermal management generally adopted a decentralized architecture. Decentralized thermal management systems resulted in high costs due to redundant components and piping, and lacked unified coordination and management of the entire vehicle's thermal management, leading to low efficiency and ineffective utilization of battery and motor waste heat. From a system architecture perspective, electric vehicle thermal management is evolving from decentralized operation of individual subsystems to integration. Integrated thermal management systems can recover waste heat from the three key components to reduce energy consumption and improve heat pump performance. Since heat pump systems perform poorly in low-temperature scenarios, recovering and utilizing battery and motor waste heat can improve their performance without increasing energy consumption. Tesla pioneered highly integrated thermal management systems, and its product has now evolved to its fourth generation. Following Tesla's integration, companies including BYD, Huawei, and Li Auto have all launched their own Refrigerant and Coolant Circuit Integrated Modules solutions.

Currently, major global Refrigerant and Coolant Circuit Integrated Modules manufacturers include Sanhua, Ningbo Tuopu Group, Yinlun, Valeo, Mahle GmbH, Hanon Systems, HYUNDAI WIA, Songz Automobile Air Conditioning, Changzhou Tenglong Auto Parts, Jiangsu Chaoli Electric Manufacture, etc. The top five manufacturers are projected to hold over 80% of the global market share by 2025. Despite this high market concentration, other international manufacturers such as Denso Corporation, Aisin, Xiezhong International Thermal Management System, Mande Electronics, Feilong Automotive Parts, United Automotive Electronic System, Shanghai Highly, Yuxin Automotive Thermal Management Technologies, Tianjin Pengling Group,

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Hangzhou Lingdong Automotive Thermal Management Technology, Longquan Xiazhi Thermal Management System, Yapp Automotive Systems, PXI AUTO COMPONENTS, Shanghai Dachuang Automotive Technology, etc., are also accelerating their development of TMIM-related products, leading to even fiercer competition in the future. Currently, there is no clearly dominant solution for integrated thermal management in electric vehicles (EVs) among domestic and international manufacturers. The various solutions differ significantly. Leading international companies, leveraging their extensive experience in traditional gasoline vehicle thermal management systems, can easily enter the EV integrated thermal management system market. Domestic manufacturers, compared to their international counterparts, possess advantages in localized support and cost, and are expected to rapidly capture market share in the EV integrated thermal management system market.

Thermal Management Integrated Modules (TMIMs) are mainly divided into Refrigerant Integrated Modules, Coolant Integrated Modules, and Comprehensive Integrated Modules. The penetration rate of these modules is rapidly increasing. According to our data, in 2025, Comprehensive Integrated Modules will account for 35.34% of the total global thermal management integrated module market.

According to our data, the demand for Thermal Management Integrated Modules (TMIMs) will grow from 7.03 million units in 2025 to 21.13 million units in 2032. Regionally, Greater China is the largest market and will continue to maintain its leading position. Most automakers, including Tesla, BYD, Geely, NIO, and XPeng Motors, have already deployed Thermal Management Integrated Modules (TMIMs) in their existing EV models. Furthermore, we predict that demand for Thermal Management Integrated Modules (TMIMs) in Europe and the Americas will continue to grow steadily from 2026 to 2032.

In the future, integrated thermal management systems will not only be able to achieve collaborative operation between subsystems through a unified control system to improve thermal management efficiency, but also meet the diverse needs of electric vehicle products, including high integration, thermal hazard control, remote control, environmentally friendly working fluids, temperature control adapted to high-voltage fast charging, and intelligent applications. Although integration is the general trend, the specific integration methods, functional configurations, scalability, and most importantly, the balance between efficiency and cost of thermal management modules still need to be tested in practice.

This report studies the global Refrigerant and Coolant Circuit Integrated Modules

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production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Refrigerant and Coolant Circuit Integrated Modules 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 Refrigerant and Coolant Circuit Integrated Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Refrigerant and Coolant Circuit Integrated Modules total production and demand, 2021-2032, (K Units)
Global Refrigerant and Coolant Circuit Integrated Modules total production value, 2021-2032, (USD Million)
Global Refrigerant and Coolant Circuit Integrated Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Refrigerant and Coolant Circuit Integrated Modules consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Refrigerant and Coolant Circuit Integrated Modules domestic production, consumption, key domestic manufacturers and share
Global Refrigerant and Coolant Circuit Integrated Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Refrigerant and Coolant Circuit Integrated Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Refrigerant and Coolant Circuit Integrated Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Refrigerant and Coolant Circuit Integrated Modules 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 Sanhua, Ningbo Tuopu Group, Yinlun, Valeo, Mahle GmbH, Hanon Systems, HYUNDAI WIA, Songz Automobile Air Conditioning, Changzhou Tenglong Auto Parts, Jiangsu Chaoli Electric Manufacture, etc.

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

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Refrigerant and Coolant Circuit Integrated Modules 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 Refrigerant and Coolant Circuit Integrated Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Refrigerant and Coolant Circuit Integrated Modules Market, Segmentation by Type:

Refrigerant Integrated Module

Coolant Integrated Module

Comprehensive Integrated Module

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Global Refrigerant and Coolant Circuit Integrated Modules Market, Segmentation by Chiller Heat Exchange:

5kw Below

5-10kw

10kw Above

Global Refrigerant and Coolant Circuit Integrated Modules Market, Segmentation by LCC Heat Exchange:

10kw Below

10-15kw

15kw Above

Global Refrigerant and Coolant Circuit Integrated Modules Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

Sanhua

Ningbo Tuopu Group

Yinlun

Valeo

Mahle GmbH

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Hanon Systems

HYUNDAI WIA

Songz Automobile Air Conditioning

Changzhou Tenglong Auto Parts

Jiangsu Chaoli Electric Manufacture

Denso Corporation

Aisin

Xiezhong International Thermal Management System

Mande Electronics

Feilong Automotive Parts

United Automotive Electronic System

Shanghai Highly

Yuxin Automotive Thermal Management Technologies

Tianjin Pengling Group

Hangzhou Lingdong Automotive Thermal Management Technology

Longquan Xiazhi Thermal Management System

Yapp Automotive Systems

PXI AUTO COMPONENTS

Shanghai Dachuang Automotive Technology

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Key Questions Answered:

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

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