

Global Heat Pump Integrated Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G7C50B20CB7DEN.html>

Date: August 2026

Pages: 153

Price: US\$ 3,480.00 (Single User License)

ID: G7C50B20CB7DEN

Abstracts

According to our (Global Info Research) latest study, the global Heat Pump Integrated Modules market size was valued at US\$ 1980 million in 2025 and is forecast to a readjusted size of US\$ 5642 million by 2032 with a CAGR of 12.7% during review period.

In 2024, global production reached approximately 7026 K units , with an average global market price of around US\$ 274 per unit.

As the automotive industry moves toward electrification and intelligent driving, the complexity of vehicle energy management is increasing, and the requirements for vehicle energy management systems are also rising. To more effectively meet the needs of future electric vehicles, integrated thermal management systems have become a clear trend. The advantage of integration is that products are more compact, which can simplify the vehicle's space layout, reduce piping layout, reduce costs, and reduce volume and weight. Heat Pump Integrated Modules, also known as thermal management integrated modules, are core components for the thermal management of new energy vehicles. By integrating components such as the water-cooled condenser, chiller, electronic water pump, electronic water valve, refrigerant integrated channel, water kettle and water channel, and liquid separator (customized according to user needs) into a single module, more precise temperature control and better heat distribution are achieved, ultimately improving vehicle performance. The core upstream components of Heat Pump Integrated Modules include electronic control components such as electronic water valves, electronic water pumps, shut-off valves, and electronic expansion valves; mechanical components such as heat exchangers, manifolds, and gas-liquid separators; and control components such as controllers. Major raw material

suppliers include Denso, Valeo, MAHLE, Bosch, Sanhua, Yinlun, and Ningbo Tuopu Group. Downstream applications include thermal management for pure electric vehicles and plug-in hybrid vehicles, with typical customers including Tesla, BYD, NIO, Li Auto, and Xpeng, etc.

The annual production capacity of a single Heat Pump Integrated Module line typically ranges from 100,000 to 300,000 units, with significant variations depending on the scale and technical level of the production line. Gross profit margins generally range from 20% to 30%, and the gross profit margins of different companies' products are significantly affected by product complexity and raw material prices.

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 Thermal Management Integrated Modules (TMIM) for EVs solutions.

With the rapid global penetration of new energy vehicles, market demand for Heat Pump Integrated Modules (HPIMs), core components that ensure battery safety and

optimize driving range, is growing steadily. Pure electric vehicles rely far more heavily on precise temperature control than traditional fuel-powered vehicles, while the complex heat source management requirements of plug-in hybrid vehicles are further driving the adoption of integrated solutions. Whether it's intelligent heat pump systems for high-end models or low-cost liquid cooling solutions for economy cars, HPIMs have become an indispensable component of new energy vehicles. Currently, the global Heat Pump Integrated Modules market is primarily dominated by Chinese manufacturers such as Sanhua, Ningbo Tuopu Group, and Yinlun. In recent years, European manufacturers such as Mahle GmbH, Valeo, and Marelli have successively stepped up their efforts, gradually changing the market competition landscape. Riding the wave of new energy, China has attracted a large number of emerging players to enter the Heat Pump Integrated Modules field. Many of these companies have obtained project contracts from OEMs and are expected to achieve mass production within the next 1-2 years. By then, a competitive landscape will present a hundred schools of thought contending and a hundred flowers blooming.

This report is a detailed and comprehensive analysis for global Heat Pump Integrated Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Heat Pump Integrated Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heat Pump Integrated Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heat Pump Integrated Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heat Pump Integrated Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Heat Pump Integrated Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Heat Pump Integrated Modules market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Heat Pump Integrated Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Traditional Refrigerant Module

New Refrigerant Module

Market segment by Chiller Heat Exchange

5kw Below

5-10kw

10kw Above

Market segment by LCC Heat Exchange

10kw Below

10-15kw

15kw Above

Market segment by Application

BEV

PHEV

Major players covered

Sanhua

Ningbo Tuopu Group

Yinlun

Valeo

Mahle GmbH

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Heat Pump Integrated Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Heat Pump Integrated Modules, with price, sales quantity, revenue, and global market share of Heat Pump Integrated Modules from 2021 to 2026.

Chapter 3, the Heat Pump Integrated Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Heat Pump Integrated Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Heat Pump Integrated Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Heat Pump

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Chapter 14 and 15, to describe Heat Pump Integrated Modules sales channel, distributors, customers, research findings and conclusion.

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