

Global Integrated Heat Pump Valve Module for New Energy Vehicles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Integrated Heat Pump Valve Module for New Energy Vehicles market size is expected to reach \$ 2810 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Integrated heat pump valve modules for new energy vehicles are integrated flow control components used in the heat pump thermal management systems of battery electric vehicles, plug-in hybrid electric vehicles and range-extended electric vehicles. The product scope mainly covers refrigerant-side valve modules, coolant-side valve modules and combined refrigerant-coolant integrated modules. A typical module consists of electronic expansion valves, electronic control valves, solenoid valves, check valves, multi-way valves, manifolds, precision-machined valve bodies, sealing parts, sensor interfaces and partial control or actuator units. Manufacturing processes usually include precision machining, brazing or joining, sealing assembly, helium leak testing, pressure resistance testing, functional calibration and vehicle platform validation. Key specifications include pressure rating, leakage rate, flow control accuracy, response time, refrigerant compatibility, operating temperature range, integration level, port configuration and vehicle platform adaptability. The module is designed to switch refrigerant or coolant circuits, regulate flow and distribute thermal energy under cooling, heating, defrosting, battery cooling, battery heating and powertrain heat recovery modes. It is mainly applied in heat pump thermal management systems for new energy passenger vehicles and selected electric commercial vehicles. In 2025, the global industry average price of integrated heat pump valve modules for new energy vehicles is about USD 210 per set, and the industry average gross margin is about 30%.

Integrated heat pump valve modules for new energy vehicles are becoming a key

component in the shift from distributed thermal management parts to compact and integrated system architecture. The upstream supply chain includes aluminum valve bodies, precision-machined parts, sealing materials, electronic expansion valves, solenoid valves, sensors, actuators and control units. The midstream mainly covers module design, circuit integration, sealing validation, pressure testing and assembly. The downstream demand comes from vehicle manufacturers, thermal management system integrators and electric vehicle platforms. The value of the product is not limited to individual valves, but comes from centralized refrigerant and coolant circuit control, fewer leakage points, higher assembly efficiency and better heat pump performance.

Competition is moving from single-valve supply toward platform-level integration capability. Suppliers with in-house valve production, manifold design, system validation and co-development capability with vehicle platforms are better positioned to win long-cycle programs. Companies relying only on conventional air-conditioning components or standalone valves need to upgrade toward integrated modules. Chinese suppliers have clear advantages in cost control, response speed and local electric vehicle customer access, while European, Japanese and Korean suppliers remain strong in system engineering, global platform validation and high-pressure refrigerant applications. As vehicle platforms become more standardized, the market is expected to become more concentrated around suppliers with proven module-level reliability.

The policy and technology environment remains supportive. Rising new energy vehicle penetration, stricter energy efficiency requirements, stronger demand for low-temperature driving range, adoption of low global warming potential refrigerants and lightweight thermal management design are all pushing heat pump valve modules into wider vehicle segments. Future growth will be driven by highly integrated valve modules, multi-way valves, carbon dioxide heat pump valve groups, combined refrigerant-coolant modules and platform-specific customized designs. At the same time, supplier profitability may be affected by price pressure, vehicle makers' in-house development, changes in refrigerant routes and long automotive validation cycles.

This report studies the global Integrated Heat Pump Valve Module for New Energy Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Integrated Heat Pump Valve Module for New Energy Vehicles 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 Integrated Heat Pump Valve Module for New Energy Vehicles that contribute to its

increasing demand across many markets.

Highlights and key features of the study

Global Integrated Heat Pump Valve Module for New Energy Vehicles total production and demand, 2021-2032, (Sets)

Global Integrated Heat Pump Valve Module for New Energy Vehicles total production value, 2021-2032, (USD Million)

Global Integrated Heat Pump Valve Module for New Energy Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sets), (based on production site)

Global Integrated Heat Pump Valve Module for New Energy Vehicles consumption by region & country, CAGR, 2021-2032 & (Sets)

U.S. VS China: Integrated Heat Pump Valve Module for New Energy Vehicles domestic production, consumption, key domestic manufacturers and share

Global Integrated Heat Pump Valve Module for New Energy Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sets)

Global Integrated Heat Pump Valve Module for New Energy Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sets)

Global Integrated Heat Pump Valve Module for New Energy Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sets)

This report profiles key players in the global Integrated Heat Pump Valve Module for New Energy Vehicles 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 Zhejiang Sanhua Automotive Components Co., Ltd., Hanon Systems, Valeo, Ningbo Tuopu Group Co., Ltd., Zhejiang Yinlun Machinery Co., Ltd., MAHLE GmbH, Welling Auto Parts, YX Thermal / Ethermal, Hutchinson, Marelli Holdings 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 Integrated Heat Pump Valve Module for New Energy Vehicles market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sets) and average price (US\$/Set) 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 Integrated Heat Pump Valve Module for New Energy Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Integrated Heat Pump Valve Module for New Energy Vehicles Market, Segmentation by Type:

Refrigerant-side Valve Module

Coolant-side Valve Module

Hybrid Refrigerant-Coolant Module

Others

Global Integrated Heat Pump Valve Module for New Energy Vehicles Market,

Global Integrated Heat Pump Valve Module for New Energy Vehicles Supply, Demand and Key Producers, 2026-2032

Segmentation by Refrigerant Type:

R134a-based

R1234yf-based

R290-based

Others

Global Integrated Heat Pump Valve Module for New Energy Vehicles Market, Segmentation by Application:

BEV (Battery Electric Vehicle)

PHEV (Plug-in Hybrid Electric Vehicle)

Others

Companies Profiled:

Zhejiang Sanhua Automotive Components Co., Ltd.

Hanon Systems

Valeo

Ningbo Tuopu Group Co., Ltd.

Zhejiang Yinlun Machinery Co., Ltd.

MAHLE GmbH

Welling Auto Parts

YX Thermal / Ethermal

Hutchinson

Marelli Holdings Co., Ltd.

TI Fluid Systems plc

Eagle Industry Co., Ltd.

Schrader Pacific Advanced Valves

Key Questions Answered:

1. How big is the global Integrated Heat Pump Valve Module for New Energy Vehicles market?
2. What is the demand of the global Integrated Heat Pump Valve Module for New Energy Vehicles market?
3. What is the year over year growth of the global Integrated Heat Pump Valve Module for New Energy Vehicles market?
4. What is the production and production value of the global Integrated Heat Pump Valve Module for New Energy Vehicles market?
5. Who are the key producers in the global Integrated Heat Pump Valve Module for New Energy Vehicles market?
6. What are the growth factors driving the market demand?

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