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Global Electronic Coolant Valves for New Energy Vehicle Thermal Management Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electronic Coolant Valves for New Energy Vehicle Thermal Management market size was valued at US$ 1080 million in 2025 and is forecast to a readjusted size of US$ 2273 million by 2032 with a CAGR of 10.9% during review period.

Electronic Coolant Valves for New Energy Vehicle Thermal Management are core coolant flow control components used in new energy vehicle thermal management systems. They replace conventional mechanical water valves to enable active coolant circuit switching, precise flow distribution and refined temperature control, serving as key actuators connecting battery packs, electric motors, power electronics, cabin heating, heat pump systems and fast-charging cooling circuits. With the rising penetration of new energy vehicles and the wider adoption of heat pump systems, 800V high-voltage platforms, battery pre-conditioning for fast charging and multi-temperature-zone thermal management, vehicle manufacturers are placing higher requirements on coolant routing control, heat recovery efficiency and system integration. This is driving electronic coolant valves from basic two-way and three-way products toward multi-way valves, proportional control valves and valve assemblies integrated into coolant-side thermal management modules. Upstream inputs mainly include engineering plastics, sealing materials, motors, actuators, sensors, PCBs, connectors and automotive-grade electronic components, while downstream customers are mainly NEV OEMs, thermal management system Tier 1 suppliers, battery system suppliers and electric drive suppliers. The global production capacity in 2025 is estimated at about 72.00 million units, sales volume at around 58.46 million units, average ex-factory price at about USD

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17.8 per unit, and industry gross margin at roughly 23%–36%.

The global market for electronic coolant valves for new energy vehicle thermal management is in a rapid growth stage, driven by vehicle electrification, thermal management architecture upgrades and the wider adoption of heat pump systems and high-voltage fast-charging platforms. Compared with internal combustion engine vehicles, new energy vehicles need to manage battery packs, electric motors, power electronics, cabin heating, heat pump systems and fast-charging cooling at the same time, which significantly increases the number of coolant circuits and the complexity of flow control. As key actuators for coolant routing, flow distribution and temperature regulation, electronic coolant valves are evolving from basic on-off components into important control units within vehicle thermal management systems. The global supply base includes international automotive component suppliers, Chinese thermal management component manufacturers and specialized valve companies, while competition is shifting from standalone component supply toward system-level co-development and platform-based programs. Going forward, electronic coolant valves for new energy vehicle thermal management will continue to move toward multi-way design, integration, lightweight structure and intelligent control. Two-way electronic coolant valves will still be used in basic branch control, cost-sensitive models and local cooling circuits, while three-way valves will mainly support circuit switching and flow distribution. Multi-way electronic coolant valves are expected to become the major growth direction in heat pump systems, fast-charging pre-conditioning, multi-temperature-zone thermal management and coolant-side integrated modules. As OEMs place higher requirements on driving range, low-temperature energy consumption, fast-charging efficiency and cabin comfort, suppliers will need to improve low internal leakage, low pressure drop, noise control, durability, control accuracy and response speed. Companies with a broad product matrix, automotive-grade validation capabilities and OEM co-development experience will be better positioned to secure long-term platform nominations. The main growth drivers include rising new energy vehicle sales, increasing thermal management complexity, higher heat pump penetration and the rollout of high-voltage fast-charging platforms. China is one of the most active growth regions, supported by a complete new energy vehicle supply chain, rapid model iteration and strong local supplier collaboration. Europe, North America, Japan and South Korea place stronger emphasis on vehicle energy efficiency management, platform-based supply and high-end thermal management performance. As requirements for battery safety management, fast-charging battery pre-conditioning, electric drive waste heat utilization and cabin thermal comfort continue to increase, the application scope of electronic coolant valves will expand further, and product value will extend from standalone valve manufacturing to coordinated thermal system control.

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However, the industry also faces high entry barriers and competitive pressure. Electronic coolant valves are automotive-grade mechatronic actuators that must meet strict requirements for long-term durability, sealing reliability, thermal shock resistance, coolant compatibility, noise control and vehicle-level control integration. New entrants need to go through long validation cycles and mass-production ramp-up processes. As competition intensifies in basic two-way and three-way products, some suppliers may face pressure from annual price reductions, price compression and capacity utilization fluctuations. At the same time, as OEMs and thermal management system suppliers promote coolant-side module integration, some standalone valves may be absorbed into higher-level thermal management modules. Future competition will increasingly depend on product reliability, platform development capability, system understanding and global supply capacity, rather than cost competitiveness alone.

This report is a detailed and comprehensive analysis for global Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Electronic Coolant Valves for New Energy Vehicle Thermal Management market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Electronic Coolant Valves for New Energy Vehicle Thermal Management market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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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 Electronic Coolant Valves for New Energy Vehicle Thermal Management

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 Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Zhejiang Sanhua Intelligent Controls, Zhejiang Yinlun Machinery, FinDreams Technology, TemB Intelligent Technology, Ningbo Tuopu Group, Feilong Auto Components, Hilite International, DENSO, Bosch Mobility, TI Fluid Systems, etc.

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

Market Segmentation

Electronic Coolant Valves for New Energy Vehicle Thermal Management 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

2-way Electronic Coolant Valve

3-way Electronic Coolant Valve

Multi-way Electronic Coolant Valve

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Market segment by Vehicle Powertrain Type

- Battery Electric Vehicle
- Plug-in Hybrid Electric Vehicle
- Range-extended Electric Vehicle
- Others

Market segment by Application

- Passenger Cars
- Commercial Vehicles

Major players covered

- Zhejiang Sanhua Intelligent Controls
- Zhejiang Yinlun Machinery
- FinDreams Technology
- TemB Intelligent Technology
- Ningbo Tuopu Group
- Feilong Auto Components
- Hilite International
- DENSO
- Bosch Mobility

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TI Fluid Systems

Valeo

MAHLE

Gentherm

Solero Technologies

Schrader Pacific Advanced Valves

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 Electronic Coolant Valves for New Energy Vehicle Thermal Management product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electronic Coolant Valves for New Energy Vehicle Thermal Management, with price, sales quantity, revenue, and global market share of Electronic Coolant Valves for New Energy Vehicle Thermal Management from 2021 to 2026.

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Chapter 3, the Electronic Coolant Valves for New Energy Vehicle Thermal Management competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Electronic Coolant Valves for New Energy Vehicle Thermal Management 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 Electronic Coolant Valves for New Energy Vehicle Thermal Management.

Chapter 14 and 15, to describe Electronic Coolant Valves for New Energy Vehicle Thermal Management sales channel, distributors, customers, research findings and conclusion.

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