Automotive Electric Coolant Valve Market to Grow $10 Billion by 2032, Driven by Smart Cooling Technologies

WILMINGTON, NEW CASTLE, DE, UNITED STATES, June 24, 2025 /EINPresswire.com/ -- Rise in emission norms and fuel efficiency standards, growth in demand for hybrid and electric vehicles, and an increase in demand for hybrid and electric vehicles drive the growth of the global automotive electric coolant valve market.

Automotive Electric Coolant Valve Market Growth

Allied Market Research recently published a report titled, “Automotive Electric Coolant Valve Market by Type, Modulation Type, Communication Protocol, Vehicle Type, and Voltage: Global Opportunity Analysis and Industry Forecast, 2023–2032.” According to the report, the global automotive electric coolant valve market size generated □□□ □,□□□.□ □□□□□□□□ □□ □□□□ and is projected to reach □□□ □□,□□□.□ □□□□□□□□ □□ □□□□, growing at a □□□□ □□ □.□□% □□□□ □□□□ □□ □□□□.

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Government mandates for □□□ □□□□□□□□ reductions are pushing automakers toward smarter, more efficient thermal management solutions. For example, the implementation of □□□□ □□ □□□□□ □□ □□□□□□ and □□-□□ □□□□□ □□ □□□□□ has prompted increased adoption of electric coolant valves. These valves reduce parasitic engine losses and eliminate the need for belt-driven systems, helping OEMs meet tightening emission targets.

According to the EU, □□□□□□□□□ □□□□□□□□ □□□ □□□□□ □□□□□□□□□□ □□□□□ □□% □□□ □.□%, respectively, to total CO□ emissions. Stricter performance standards introduced in 2020 led to a □□% □□□□□□□□□ □□ □□□□□□□□□ that year and □□.□% □□ □□□□, reinforcing the impact of such technologies.

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□ In □□□□□□□□ □□□□, Hanon Systems invested USD $129 million to enhance facilities in Hungary, focusing on EV thermo parts manufacturing and digital integration in Székesfehérvár, Pécs, and Rétság.
□ □□□□□□□ □□□□ witnessed Modine Manufacturing Company expanding the production of EVantage thermal management systems in Pontevico, Italy, catering to heavy-duty, commercial, and specialty vehicles in Europe.
□ In □□□□□□□□ □□□□, Hanon Systems inaugurated a dedicated eco-friendly vehicle components plant in Gyeongju-si, Korea, producing solutions for electric vehicles, including heat pump systems and coolant valve assemblies.
□ Voss Fluid GmbH's strategic acquisition of HENZEL Automotive GmbH in □□□□□□□□□ □□□□ strengthens Voss Group's automotive unit, fostering growth in thermal management with an enriched product portfolio encompassing thermostats, integrated sensors, and advanced function modules.

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The global shift toward □□□□□□□□ □□□ □□□□□□ □□□□□□□□ is creating unprecedented [opportunities for electric coolant valve manufacturers](). These valves play a critical role in □□□□□□□ □□□□□□□□□□ □□ □□ □□□□□□□□□ and power electronics. As per the International Energy Agency (IEA), global EV stock reached □□ □□□□□□□ □□□□□ □□ □□□□, a □□% □□□□□□□□ from the previous year.

In addition, the rising penetration of □□□ □□□□ □□□□□□ □□□□□□□—expected to reach □□ □□□□□□□ □□□□□□□□ □□ □□□□—is driving demand for valves compatible with higher voltage operations. Automakers like □□□□□□, □□□, □□□□□□□, □□□ □□□□ are already integrating such systems to improve fuel economy and reduce emissions.

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Leading automotive suppliers are developing □□□□-□□□ □□□□□□□□ □□□□□□□ □□□□□□ integrated with Brushless DC motors and intelligent control units. These enable variable speed operations, real-time coolant flow adjustment, and fault detection. Unlike traditional valves, smart valves consume less power and enhance vehicle safety through precision cooling.

Even □□□□□□□□ □□□□□□□□□□ □□□□□□ (□□□) vehicles are transitioning toward electric valves to eliminate accessory belts and pulleys, thereby improving fuel efficiency and supporting engine

downsizing initiatives.

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The market is also witnessing growth in □□□□□□□□□□□□ □□□□□□□□□□□□□□□, where traditional mechanical valves are being replaced with electric variants. Retrofitting enhances vehicle fuel efficiency and thermal system performance, especially in commercial fleets and passenger vehicles. Custom plug-and-play solutions are opening new revenue streams for suppliers.

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Emerging economies like □□□□□□, □□□□□□, □□□□ □□□□□□□ present vast market potential owing to increasing vehicle production and tightening emission norms. Establishing manufacturing hubs in these regions offers OEMs the dual advantage of serving both primary and aftermarket segments efficiently. In Asia-Pacific, the accelerated EV shift will further stimulate demand for advanced thermal solutions, particularly electric coolant valves.

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Key companies profiled in the report include:

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