Middle East & Africa Electric Coolant Pump Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Type (Drop-In bedliners, Spray-On bedliners, and Others) and Material (Polyurethane, Aluminium Carpet, and Others)

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Report description:

The electric coolant pump market in Middle East & Africa is expected to grow from US$ 69.02 million in 2022 to US$ 158.29 million by 2028; it is estimated to grow at a CAGR of 14.8% from 2022 to 2028.

Improvement of Electric Coolant Pumps Over Mechanical Pumps

Electric coolant pumps supply coolants to vehicle components such as engines, power electronics, gearboxes, and batteries in thermal management systems. These coolant pumps deliver efficient cooling even at higher engine speeds with high engine loads, which is leveraging the adoption of electric coolant pumps in automobiles. Electric coolant pumps use a battery system as a power source, which is highly efficient with respect to emissions, making them the most preferred solution for various electric and hybrid automotive vehicles. However, mechanical pumps are belt-driven pumps that run on mechanical and rotational energy from the engine provided in the form of a spinning rubber belt and use it to drive an internal pump mechanism.

The electric coolant pump consumes a small amount of energy to perform the cooling function. It takes the 12V output from the car battery and supplies coolant to the engine of the vehicle. Also, there is no energy loss while using the electric coolant pump. The constant electric power results in an uninterruptible supply of coolant to the engine. However, the mechanical pump extracts energy from the crankshaft, which is then transferred to the belt and pulley system and finally to the pump. Hence, the true power from the crankshaft is never fully transferred to the coolant pump. Moreover, the mechanical coolant pump has several moving parts, which results in friction and the production of heat inside the engine bay. On the other hand, the electric pump has fewer moving parts, and it comes in ideal packaging, saving space and reducing friction. Thus, the advantages of the electric coolant pumps over the mechanical pumps are aiding the market growth.

Market Overview

The growing emphasis on autonomous vehicles and high demand for electric vehicles is expected to boost the market in the Middle East and Africa during the forecast period. The UAE government has planned to make 25% of transport autonomous by 2030. Gulf countries, such as UAE, Qatar, and Saudi Arabia, have very high-temperature environments. This stresses automobile companies to develop efficient cooling technologies in vehicles that are expected to foster the demand for electric coolant pumps in the region. Moreover, the expanding automotive industry and the increasing demand for luxury cars in Saudi Arabia, the UAE, and Qatar are anticipated to reflect on the regional market over the next few years. Dubai Expo 2020, held in 2022, has opened up new opportunities for automobile companies in the UAE automotive aftermarket.

Middle East & Africa Electric coolant pump Market Revenue and Forecast to 2028 (US$ Million)

Middle East & Africa Electric coolant pump market Segmentation

The Middle East & Africa electric coolant pump market is segmented on the basis of application, power, vehicle type, propulsion type, pump type, and country. Based on application, the Middle East & Africa electric coolant pump market is segmented into engine cooling & HVAC, battery & power electronics cooling, and gearbox cooling. The engine cooling & HVAC segment held the largest market share in 2022.

Based on power, the Middle East & Africa electric coolant pump market is bifurcated into below 100 W and above 100 W. The below 100 W segment held a larger market share in 2022.

Based on vehicle type, the Middle East & Africa electric coolant pump market is segmented into passenger cars, light commercial vehicles, and heavy commercial vehicles. The passenger cars segment held the largest market share in 2022.

Based on propulsion type, the Middle East & Africa electric coolant pump market is segmented into ICE, electric, and hybrid. The ICE segment held the largest market share in 2022.

Based on pump type, the Middle East & Africa electric coolant pump market is bifurcated into with ECU and without ECU. The without ECU segment held a larger market share in 2022.

Based on country, the Middle East & Africa electric coolant pump market is segmented into the South Africa, Saudi Arabia, UAE, and Rest of Middle East & Africa. The South Africa dominated the market share in 2022.

Aisin Seiki Co. Ltd.; Continental AG; Hanon Systems; Hitachi Automotive Systems, LTD.; Johnson Electric Holdings Limited; Mahle GmbH; Rheinmetall Automotive AG; Robert Bosch GmbH; GMB CORPORATION; and VOVYO Technology Co. Ltd are the leading companies operating in the Middle East & Africa electric coolant pump market.

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