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Global Electric Vehicle Battery Cooling Plate Market Size Study & Forecast, By Vehicle Type (Passenger Car and Commercial Vehicle), By Propulsion Type (BEV and HV), By Technology (Liquid Cooling and Air Cooling), By Battery Type (Lithium-ion and Nickel-Metal Hydride), and Regional Analysis, 2023-2030

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Abstracts

Global Electric Vehicle Battery Cooling Plate Market is valued at approximately USD 1.43 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 21.4% over the forecast period 2023-2030. The Electric Vehicle (EV) Battery Cooling Plate is an essential component of EVs' thermal management systems, designed to maintain the battery pack's optimal operating temperature. It dissipates heat generated during vehicle operation or charging, preventing overheating and ensuring battery efficiency and longevity. The cooling plate integrates coolant channels to regulate temperature made from lightweight, heat-conductive materials like aluminum. This efficient design, combined with thermal regulation features, supports consistent battery performance, enhances safety by minimizing thermal risks, and contributes to the overall reliability and efficiency of electric vehicles. The electric vehicle battery cooling plate market is expected to experience significant growth as advanced cooling systems gain popularity for their performance benefits. The rapid expansion of charging infrastructure for electric vehicles, increasing development of high-energy density batteries, and growing environmental awareness are the most prominent factors that are propelling the market demand across the globe.

In addition, the rapid expansion of the EV sector is directly associated with the demand for the electric vehicle battery cooling plate market. Governments globally are imposing stricter emission regulations and offering subsidies to promote electric vehicle (EV)

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adoption, which is leading to a substantial surge in EV sales globally. As per The International Energy Agency, the demand for electric cars is surging at an astonishing pace. As of 2021, China tops the charts with the sale of approximately 3.3 million electric cars, followed by Europe with 2.3 million, and the United States with 0.6 million. Also, the sales of electric cars are projected to reach 8 million in China, 3.4 million in Europe, and 1.6 million in the United States. The increasing preference for electric vehicles (EVs) among consumers and businesses is driving a surge in demand for EV components like batteries and associated cooling systems such as cooling plates. This heightened demand is spurring innovation within the EV market, particularly in battery technology and cooling solutions. Consequently, this is leading to the development of more advanced and efficient electric vehicle battery cooling plates capable of meeting the requirements of larger and more powerful EV batteries. Moreover, the rise in advancement and adoption of liquid cooling systems, as well as the growing need for enhanced battery performance and safety presents various lucrative opportunities over the forecasting years. However, the technical issues of liquid cooling systems and the complexities associated with the integration with battery packs are hindering the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Electric Vehicle Battery Cooling Plate Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the presence of key manufacturing centers for electric vehicles (EVs) and their components, particularly China, Japan, South Korea, and India. These nations have developed strong supply chains and manufacturing infrastructures, which significantly reduce the cost of producing battery cooling plates and other EV components. These factors are fostering the market growth over the projected period of 2023-2030. Whereas North America is expected to grow at a significant CAGR over the forecast years. The rising demand for electric vehicles (EVs), and rapid development of charging infrastructure including public charging stations and home charging solutions are significantly propelling the market demand across the region. This has led to increased adoption of electric passenger cars, thereby indirectly boosting the market. In September 2023, the U.S. government made a significant investment of USD 100 million towards repairing and replacing existing non-operational electric vehicle charging infrastructure, further supporting the growth of the Electric Vehicle Battery Cooling Plate Market.

Major market players included in this report are:

BorgWarner Inc. (U.S.)

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Sogefi Group (Italy)

Dana Limited (U.S.)

Ningbo Cheeven New Materials Technology Co., Ltd. (China)

Modine Manufacturing Company (U.S.)

Senior Flexonics (U.S.)

Columbia Staver Limited (U.K.)

Shenzhen Cotran New Material CO., LTD. (China)

Vikas Group (India)

Mersen Corporate Services SAS (France)

Recent Developments in the Market:

In March 2023, Columbia Staver Limited unveiled a groundbreaking cold plate engineered to substantially decrease the temperature difference (delta T) among individual battery cells. The innovative Isothermal cold plate features inlet and outlet ports positioned on the same end of the plate. It gives the flexibility to specify the inlet and outlet connectors, which are aligned with or perpendicular to the manifold, according to the customer’s preferences.

In September 2022, Ningbo Cheeven New Materials Technology Co., Ltd. introduced FSW liquid cooling plates, which utilize Friction Stir Welding (FSW) to create solid-state bonds with exceptional mechanical strength. This ensures the structural integrity of the cooling plates, resulting in robustness and durability.

Global Electric Vehicle Battery Cooling Plate Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

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Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Vehicle Type, Propulsion Type, Technology, Battery Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Vehicle Type:

Passenger Car

Commercial Vehicle

By Propulsion Type:

BEV

HV

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By Technology:

Liquid Cooling

Air Cooling

By Battery Type:

Lithium-ion

Nickel-Metal Hydride

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

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Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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