Automotive Battery Thermal Management System Market By Type (Conventional, Solid), By Vehicle Type (Commercial Vehicles, Passenger Vehicles), By Technology (Active, Passive, Hybrid), By Propulsion (Hybrid Electric Vehicles (HEVs), Plug-in Hybrid Electric Vehicle (PHEVs), Fuel Cell Electric Vehicle (FCEV), Battery Electric Vehicle (BEVs)): Global Opportunity Analysis and Industry Forecast, 2023-2032

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Report description:

Automotive battery thermal management system is used to maintain a battery pack of electric vehicles at an optimum average temperature during the electrochemical processes occurring in cells. High battery temperature can reduce performance, shorten battery life, and pose a risk of explosion. Therefore, automotive battery thermal management systems are essential for all battery modules. The main purpose of automotive battery thermal management system is regulation of the temperature of the battery cell to extend the life of the battery. The automotive battery thermal management system is expected to allow the pack to work under a good range of climatic conditions and supply ventilation.

Presently, the automotive battery thermal management system market is developing due to growth in the automotive industry and rising demand for electric vehicles. The rise in need for improved battery performance and efficiency in vehicles fuels the global growth of the automotive battery thermal management system market. The surge in popularity of electric vehicles, as well as rise in environmental concerns, has expedited the development of automotive battery thermal management systems.

Factors such as rise in demand for luxury vehicles with advanced features & comfort, implementation of stringent emission regulations, rise in demand for front & rear A/C, heated steering, the integration of turbochargers in commercial vehicles, and the use of smart thermal management solutions in vehicles are all expected to boost the global automotive battery thermal systems market. Components such as compressors, HVAC, powertrain cooling, and fluid transport are being developed by companies in the automotive battery thermal system industry.

Moreover, technological advancements in the automobile industry and growth in the automotive sector are expected to offer

lucrative opportunities for the market globally. Each of these factors is anticipated to have a definite impact on the automotive battery thermal management system market during the forecast period.

The automotive battery thermal management system market is segmented on the basis of type, vehicle type, propulsion, technology, and region. By type, it is bifurcated into conventional and solid-state automotive battery thermal management market. By vehicle type, it is classified into passenger vehicles and commercial vehicles. By technology, it is categorized into active, passive, and hybrid. By propulsion, it is divided into hybrid electric vehicles (HEVs), plug-in hybrid electric vehicle (PHEVs), fuel cell electric vehicle (FCEV), and battery electric vehicle (BEVs).

By region, the automotive battery thermal management system market is analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, Italy, France, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, Taiwan, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

The key players operating in the automotive battery thermal management system market include MAHLE GmbH, LG Chem, Valeo, Hanon Systems, Samsung SDI Co., Ltd., Dana Limited, Continental AG, Gentherm Inc, Calsonic Kansei Corporation (Marelli Corporation), and Robert Bosch GmbH.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the automotive battery thermal management system market analysis from 2022 to 2032 to identify the prevailing automotive battery thermal management system market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the automotive battery thermal management system market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global automotive battery thermal management system market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Conventional
- Solid

By Vehicle Type

- Commercial Vehicles
- Passenger Vehicles

By Technology

- Active
- Passive
- Hybrid

By Propulsion

- Hybrid Electric Vehicles (HEVs)
- Plug-in Hybrid Electric Vehicle (PHEVs)
- Fuel Cell Electric Vehicle (FCEV)
- Battery Electric Vehicle (BEVs)

By Region

- North America
- U.S.
- Canada

- Mexico
- Europe
- UK
- Germany
- France
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Calsonic Kansei Corporation (Marelli Corporation)
- Continental AG
- Dana Limited
- Gentherm Inc
- Hanon Systems
- LG Chem
- MAHLE GmbH
- Robert Bosch GmbH
- Samsung SDI Co., Ltd.
- Valeo

Table of Contents:

Automotive Battery Thermal Management System Market By Type (Conventional, Solid), By Vehicle Type (Commercial Vehicles, Passenger Vehicles), By Technology (Active, Passive, Hybrid), By Propulsion (Hybrid Electric Vehicles (HEVs), Plug-in Hybrid Electric Vehicle (PHEVs), Fuel Cell Electric Vehicle (FCEV), Battery Electric Vehicle (BEVs)): Global Opportunity Analysis and Industry Forecast, 2023-2032

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