

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

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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

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- 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:

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research Methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers

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- 3.3.3. Threat of substitutes
- 3.3.4. Threat of new entrants
- 3.3.5. Intensity of rivalry
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Surge in demand for high-performance, fuel-efficient, and low emission vehicles.
 - 3.4.1.2. Stringent government rules and regulations toward vehicle emission.
 - 3.4.2. Restraints
 - 3.4.2.1. High development cost associated with automotive battery thermal management system.
 - 3.4.3. Opportunities
 - 3.4.3.1. Innovation in battery cooling system.

3.5. COVID-19 Impact Analysis on the market

CHAPTER 4: AUTOMOTIVE BATTERY THERMAL MANAGEMENT SYSTEM MARKET, BY TYPE

- 4.1. Overview
 - 4.1.1. Market size and forecast
- 4.2. Conventional
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
- 4.3. Solid
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region
 - 4.3.3. Market share analysis by country

CHAPTER 5: AUTOMOTIVE BATTERY THERMAL MANAGEMENT SYSTEM MARKET, BY VEHICLE TYPE

- 5.1. Overview
 - 5.1.1. Market size and forecast
- 5.2. Commercial Vehicles
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market share analysis by country
- 5.3. Passenger Vehicles
 - 5.3.1. Key market trends, growth factors and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market share analysis by country

CHAPTER 6: AUTOMOTIVE BATTERY THERMAL MANAGEMENT SYSTEM MARKET, BY TECHNOLOGY

- 6.1. Overview
 - 6.1.1. Market size and forecast
- 6.2. Active
 - 6.2.1. Key market trends, growth factors and opportunities
 - 6.2.2. Market size and forecast, by region
 - 6.2.3. Market share analysis by country
- 6.3. Passive
 - 6.3.1. Key market trends, growth factors and opportunities
 - 6.3.2. Market size and forecast, by region

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6.3.3. Market share analysis by country

6.4. Hybrid

6.4.1. Key market trends, growth factors and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market share analysis by country

CHAPTER 7: AUTOMOTIVE BATTERY THERMAL MANAGEMENT SYSTEM MARKET, BY PROPULSION

7.1. Overview

7.1.1. Market size and forecast

7.2. Hybrid Electric Vehicles (HEVs)

7.2.1. Key market trends, growth factors and opportunities

7.2.2. Market size and forecast, by region

7.2.3. Market share analysis by country

7.3. Plug-in Hybrid Electric Vehicle (PHEVs)

7.3.1. Key market trends, growth factors and opportunities

7.3.2. Market size and forecast, by region

7.3.3. Market share analysis by country

7.4. Fuel Cell Electric Vehicle (FCEV)

7.4.1. Key market trends, growth factors and opportunities

7.4.2. Market size and forecast, by region

7.4.3. Market share analysis by country

7.5. Battery Electric Vehicle (BEVs)

7.5.1. Key market trends, growth factors and opportunities

7.5.2. Market size and forecast, by region

7.5.3. Market share analysis by country

CHAPTER 8: AUTOMOTIVE BATTERY THERMAL MANAGEMENT SYSTEM MARKET, BY REGION

8.1. Overview

8.1.1. Market size and forecast By Region

8.2. North America

8.2.1. Key trends and opportunities

8.2.2. Market size and forecast, by Type

8.2.3. Market size and forecast, by Vehicle Type

8.2.4. Market size and forecast, by Technology

8.2.5. Market size and forecast, by Propulsion

8.2.6. Market size and forecast, by country

8.2.6.1. U.S.

8.2.6.1.1. Key market trends, growth factors and opportunities

8.2.6.1.2. Market size and forecast, by Type

8.2.6.1.3. Market size and forecast, by Vehicle Type

8.2.6.1.4. Market size and forecast, by Technology

8.2.6.1.5. Market size and forecast, by Propulsion

8.2.6.2. Canada

8.2.6.2.1. Key market trends, growth factors and opportunities

8.2.6.2.2. Market size and forecast, by Type

8.2.6.2.3. Market size and forecast, by Vehicle Type

8.2.6.2.4. Market size and forecast, by Technology

8.2.6.2.5. Market size and forecast, by Propulsion

8.2.6.3. Mexico

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- 8.2.6.3.1. Key market trends, growth factors and opportunities
- 8.2.6.3.2. Market size and forecast, by Type
- 8.2.6.3.3. Market size and forecast, by Vehicle Type
- 8.2.6.3.4. Market size and forecast, by Technology
- 8.2.6.3.5. Market size and forecast, by Propulsion
- 8.3. Europe
 - 8.3.1. Key trends and opportunities
 - 8.3.2. Market size and forecast, by Type
 - 8.3.3. Market size and forecast, by Vehicle Type
 - 8.3.4. Market size and forecast, by Technology
 - 8.3.5. Market size and forecast, by Propulsion
 - 8.3.6. Market size and forecast, by country
 - 8.3.6.1. UK
 - 8.3.6.1.1. Key market trends, growth factors and opportunities
 - 8.3.6.1.2. Market size and forecast, by Type
 - 8.3.6.1.3. Market size and forecast, by Vehicle Type
 - 8.3.6.1.4. Market size and forecast, by Technology
 - 8.3.6.1.5. Market size and forecast, by Propulsion
 - 8.3.6.2. Germany
 - 8.3.6.2.1. Key market trends, growth factors and opportunities
 - 8.3.6.2.2. Market size and forecast, by Type
 - 8.3.6.2.3. Market size and forecast, by Vehicle Type
 - 8.3.6.2.4. Market size and forecast, by Technology
 - 8.3.6.2.5. Market size and forecast, by Propulsion
 - 8.3.6.3. France
 - 8.3.6.3.1. Key market trends, growth factors and opportunities
 - 8.3.6.3.2. Market size and forecast, by Type
 - 8.3.6.3.3. Market size and forecast, by Vehicle Type
 - 8.3.6.3.4. Market size and forecast, by Technology
 - 8.3.6.3.5. Market size and forecast, by Propulsion
 - 8.3.6.4. Rest of Europe
 - 8.3.6.4.1. Key market trends, growth factors and opportunities
 - 8.3.6.4.2. Market size and forecast, by Type
 - 8.3.6.4.3. Market size and forecast, by Vehicle Type
 - 8.3.6.4.4. Market size and forecast, by Technology
 - 8.3.6.4.5. Market size and forecast, by Propulsion
- 8.4. Asia-Pacific
 - 8.4.1. Key trends and opportunities
 - 8.4.2. Market size and forecast, by Type
 - 8.4.3. Market size and forecast, by Vehicle Type
 - 8.4.4. Market size and forecast, by Technology
 - 8.4.5. Market size and forecast, by Propulsion
 - 8.4.6. Market size and forecast, by country
 - 8.4.6.1. China
 - 8.4.6.1.1. Key market trends, growth factors and opportunities
 - 8.4.6.1.2. Market size and forecast, by Type
 - 8.4.6.1.3. Market size and forecast, by Vehicle Type

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- 8.4.6.1.4. Market size and forecast, by Technology
- 8.4.6.1.5. Market size and forecast, by Propulsion
- 8.4.6.2. Japan
 - 8.4.6.2.1. Key market trends, growth factors and opportunities
 - 8.4.6.2.2. Market size and forecast, by Type
 - 8.4.6.2.3. Market size and forecast, by Vehicle Type
 - 8.4.6.2.4. Market size and forecast, by Technology
 - 8.4.6.2.5. Market size and forecast, by Propulsion
- 8.4.6.3. India
 - 8.4.6.3.1. Key market trends, growth factors and opportunities
 - 8.4.6.3.2. Market size and forecast, by Type
 - 8.4.6.3.3. Market size and forecast, by Vehicle Type
 - 8.4.6.3.4. Market size and forecast, by Technology
 - 8.4.6.3.5. Market size and forecast, by Propulsion
- 8.4.6.4. South Korea
 - 8.4.6.4.1. Key market trends, growth factors and opportunities
 - 8.4.6.4.2. Market size and forecast, by Type
 - 8.4.6.4.3. Market size and forecast, by Vehicle Type
 - 8.4.6.4.4. Market size and forecast, by Technology
 - 8.4.6.4.5. Market size and forecast, by Propulsion
- 8.4.6.5. Rest of Asia-Pacific
 - 8.4.6.5.1. Key market trends, growth factors and opportunities
 - 8.4.6.5.2. Market size and forecast, by Type
 - 8.4.6.5.3. Market size and forecast, by Vehicle Type
 - 8.4.6.5.4. Market size and forecast, by Technology
 - 8.4.6.5.5. Market size and forecast, by Propulsion
- 8.5. LAMEA
 - 8.5.1. Key trends and opportunities
 - 8.5.2. Market size and forecast, by Type
 - 8.5.3. Market size and forecast, by Vehicle Type
 - 8.5.4. Market size and forecast, by Technology
 - 8.5.5. Market size and forecast, by Propulsion
 - 8.5.6. Market size and forecast, by country
 - 8.5.6.1. Latin America
 - 8.5.6.1.1. Key market trends, growth factors and opportunities
 - 8.5.6.1.2. Market size and forecast, by Type
 - 8.5.6.1.3. Market size and forecast, by Vehicle Type
 - 8.5.6.1.4. Market size and forecast, by Technology
 - 8.5.6.1.5. Market size and forecast, by Propulsion
 - 8.5.6.2. Middle East
 - 8.5.6.2.1. Key market trends, growth factors and opportunities
 - 8.5.6.2.2. Market size and forecast, by Type
 - 8.5.6.2.3. Market size and forecast, by Vehicle Type
 - 8.5.6.2.4. Market size and forecast, by Technology
 - 8.5.6.2.5. Market size and forecast, by Propulsion
 - 8.5.6.3. Africa
 - 8.5.6.3.1. Key market trends, growth factors and opportunities

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- 8.5.6.3.2. Market size and forecast, by Type
- 8.5.6.3.3. Market size and forecast, by Vehicle Type
- 8.5.6.3.4. Market size and forecast, by Technology
- 8.5.6.3.5. Market size and forecast, by Propulsion

CHAPTER 9: COMPETITIVE LANDSCAPE

- 9.1. Introduction
- 9.2. Top winning strategies
- 9.3. Product Mapping of Top 10 Player
- 9.4. Competitive Dashboard
- 9.5. Competitive Heatmap
- 9.6. Top player positioning, 2022

CHAPTER 10: COMPANY PROFILES

- 10.1. LG Chem
 - 10.1.1. Company overview
 - 10.1.2. Key Executives
 - 10.1.3. Company snapshot
 - 10.1.4. Operating business segments
 - 10.1.5. Product portfolio
 - 10.1.6. Business performance
- 10.2. Continental AG
 - 10.2.1. Company overview
 - 10.2.2. Key Executives
 - 10.2.3. Company snapshot
 - 10.2.4. Operating business segments
 - 10.2.5. Product portfolio
 - 10.2.6. Business performance
- 10.3. Gentherm Inc
 - 10.3.1. Company overview
 - 10.3.2. Key Executives
 - 10.3.3. Company snapshot
 - 10.3.4. Operating business segments
 - 10.3.5. Product portfolio
 - 10.3.6. Business performance
- 10.4. Robert Bosch GmbH
 - 10.4.1. Company overview
 - 10.4.2. Key Executives
 - 10.4.3. Company snapshot
 - 10.4.4. Operating business segments
 - 10.4.5. Product portfolio
 - 10.4.6. Business performance
- 10.5. Valeo
 - 10.5.1. Company overview
 - 10.5.2. Key Executives
 - 10.5.3. Company snapshot
 - 10.5.4. Operating business segments
 - 10.5.5. Product portfolio
 - 10.5.6. Business performance

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- 10.5.7. Key strategic moves and developments
- 10.6. Calsonic Kansei Corporation (Marelli Corporation)
 - 10.6.1. Company overview
 - 10.6.2. Key Executives
 - 10.6.3. Company snapshot
 - 10.6.4. Operating business segments
 - 10.6.5. Product portfolio
 - 10.6.6. Key strategic moves and developments
- 10.7. Dana Limited
 - 10.7.1. Company overview
 - 10.7.2. Key Executives
 - 10.7.3. Company snapshot
 - 10.7.4. Operating business segments
 - 10.7.5. Product portfolio
 - 10.7.6. Business performance
- 10.8. Hanon Systems
 - 10.8.1. Company overview
 - 10.8.2. Key Executives
 - 10.8.3. Company snapshot
 - 10.8.4. Operating business segments
 - 10.8.5. Product portfolio
- 10.9. Samsung SDI Co., Ltd.
 - 10.9.1. Company overview
 - 10.9.2. Key Executives
 - 10.9.3. Company snapshot
 - 10.9.4. Operating business segments
 - 10.9.5. Product portfolio
 - 10.9.6. Business performance
- 10.10. MAHLE GmbH
 - 10.10.1. Company overview
 - 10.10.2. Key Executives
 - 10.10.3. Company snapshot
 - 10.10.4. Operating business segments
 - 10.10.5. Product portfolio
 - 10.10.6. Key strategic moves and developments

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