

Global Automotive Smart Thermal Management Systems Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GC44F3DF4606EN.html>

Date: August 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: GC44F3DF4606EN

Abstracts

The global Automotive Smart Thermal Management Systems market size is predicted to grow from US\$ 44930 million in 2025 to US\$ 123190 million in 2032; it is expected to grow at a CAGR of 15.8% from 2026 to 2032.

Automotive Smart Thermal Management Systems are advanced, software-driven architectures that manage heat generation, distribution and rejection across the entire vehicle—internal-combustion, hybrid and battery-electric—using integrated sensors, electronic control units (ECUs), multi-port coolant valves, electric pumps, electric compressors, heat-pump circuits and smart actuators. Instead of operating each cooling or heating loop in isolation, a smart thermal management system continuously monitors ambient conditions, vehicle speed and load, battery, e-motor and power-electronics temperatures, as well as cabin comfort demands, then predicts thermal loads and dynamically allocates coolant and refrigerant flow where it is most needed. By coordinating powertrain cooling, battery conditioning, cabin HVAC, waste-heat recovery and pre-conditioning through model-based or AI-assisted control strategies, these systems reduce energy consumption and emissions, extend driving range, shorten warm-up times and protect critical components, while maintaining a stable and comfortable cabin environment. Smart thermal management is therefore a key enabler for high-efficiency ICE platforms and for next-generation electrified and connected vehicles.

Automotive smart thermal management systems are the "thermal brains" of modern vehicles, shifting the industry from simply cooling components to orchestrating energy. Instead of independent loops for engine, battery, e-motor, power electronics and cabin, smart systems link these domains together through a thermal domain controller, dense

sensor networks and software algorithms. They monitor temperatures, loads, ambient conditions and driver behavior in real time, then decide when to heat, cool, store or reuse heat—whether that's warming a cold engine or battery quickly, stabilizing an inverter on a steep grade, or keeping the cabin comfortable with minimum energy in extreme weather.

Technically, smart thermal management relies on a combination of upgraded hardware and intelligent control. On the hardware side, you still have radiators, condensers, chillers, heat pumps, cold plates, pumps, valves and fans—but they are now variable-speed, electronically actuated and integrated into multi-loop architectures that can share capacity between subsystems. On the software side, a thermal domain controller or central vehicle controller runs model-based or predictive algorithms that use map/route data, weather, driving history and charging plans to "plan ahead": pre-conditioning the battery and cabin before fast charging, shifting waste heat from power electronics to the cabin in winter, or temporarily relaxing comfort to protect range when SOC is low. Over-the-air updates can further refine strategies over the life of the vehicle.

From a business and product perspective, smart thermal management systems are becoming a major lever for differentiation in both fuel and electrified vehicles. For EVs, they are directly tied to usable range, fast-charge performance, battery longevity and NVH; for hybrids and ICE platforms, they help hit ever-stricter CO₂ and pollutant targets through faster warm-up and tighter temperature control. For OEMs and Tier-1s, this creates a shift from selling "cooling parts" to delivering integrated, software-defined thermal solutions that combine hardware, control algorithms, diagnostics and cloud connectivity. As fleets, regulators and end users all push for higher efficiency, better comfort and lower total cost of ownership, automotive smart thermal management systems are evolving into a core systems technology on par with powertrain and ADAS in shaping next-generation vehicle platforms.

LPI (LP Information)' newest research report, the "Automotive Smart Thermal Management Systems Industry Forecast" looks at past sales and reviews total world Automotive Smart Thermal Management Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Smart Thermal Management Systems sales for 2026 through 2032. With Automotive Smart Thermal Management Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Smart Thermal Management Systems industry.

This Insight Report provides a comprehensive analysis of the global Automotive Smart

Thermal Management Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Automotive Smart Thermal Management Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Smart Thermal Management Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Smart Thermal Management Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Smart Thermal Management Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Smart Thermal Management Systems market by product type, application, key players and key regions and countries.

Segmentation by Type:

Powertrain System

Passenger Cabin Thermal Management System

Motor Control Thermal Management System

Battery Thermal Management System

Segmentation by Sales Channel:

OEM

Aftermarket

Segmentation by System Architecture:

Split Type

Integrated Type

Segmentation by Vehicle Power Source:

Internal Combustion Engines

New Energy Vehicles

Segmentation by Application:

Passenger Cars

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

DENSO

Hanon Systems

Valeo

MAHLE GmbH

Sanhua Intelligent Controls

Sanden

Aotecar

Yinlun Machinery

HASCO

Songz Automobile Air Conditioning

Tuopu Group

Zhongding Group

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Automotive Smart Thermal Management Systems Market Size (2021-2032)
 - 2.1.2 Automotive Smart Thermal Management Systems Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Automotive Smart Thermal Management Systems by Country/Region (2021, 2025 & 2032)
- 2.2 Automotive Smart Thermal Management Systems Segment by Type
 - 2.2.1 Powertrain System
 - 2.2.2 Passenger Cabin Thermal Management System
 - 2.2.3 Motor Control Thermal Management System
 - 2.2.4 Battery Thermal Management System
 - 2.2.5 Automotive Smart Thermal Management Systems Market Size by Type
 - 2.2.5.1 Automotive Smart Thermal Management Systems Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.5.2 Global Automotive Smart Thermal Management Systems Market Size Market Share by Type (2021-2026)
- 2.3 Automotive Smart Thermal Management Systems Segment by Sales Channel
 - 2.3.1 OEM
 - 2.3.2 Aftermarket
 - 2.3.3 Automotive Smart Thermal Management Systems Market Size by Sales Channel
 - 2.3.3.1 Automotive Smart Thermal Management Systems Market Size CAGR by Sales Channel (2021 VS 2025 VS 2032)
 - 2.3.3.2 Global Automotive Smart Thermal Management Systems Market Size Market

Share by Sales Channel (2021-2026)

2.4 Automotive Smart Thermal Management Systems Segment by System

Architecture

2.4.1 Split Type

2.4.2 Integrated Type

2.4.3 Automotive Smart Thermal Management Systems Market Size by System

Architecture

2.4.3.1 Automotive Smart Thermal Management Systems Market Size CAGR by System Architecture (2021 VS 2025 VS 2032)

2.4.3.2 Global Automotive Smart Thermal Management Systems Market Size Market Share by System Architecture (2021-2026)

2.5 Automotive Smart Thermal Management Systems Segment by Vehicle Power Source

2.5.1 Internal Combustion Engines

2.5.2 New Energy Vehicles

2.5.3 Automotive Smart Thermal Management Systems Market Size by Vehicle Power Source

2.5.3.1 Automotive Smart Thermal Management Systems Market Size CAGR by Vehicle Power Source (2021 VS 2025 VS 2032)

2.5.3.2 Global Automotive Smart Thermal Management Systems Market Size Market Share by Vehicle Power Source (2021-2026)

2.6 Automotive Smart Thermal Management Systems Segment by Application

2.6.1 Passenger Cars

2.6.2 Commercial Vehicles

2.6.3 Automotive Smart Thermal Management Systems Market Size by Application

2.6.3.1 Automotive Smart Thermal Management Systems Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.6.3.2 Global Automotive Smart Thermal Management Systems Market Size Market Share by Application (2021-2026)

3 AUTOMOTIVE SMART THERMAL MANAGEMENT SYSTEMS MARKET SIZE BY PLAYER

3.1 Automotive Smart Thermal Management Systems Market Size Market Share by Player

3.1.1 Global Automotive Smart Thermal Management Systems Revenue by Player (2021-2026)

3.1.2 Global Automotive Smart Thermal Management Systems Revenue Market Share by Player (2021-2026)

3.2 Global Automotive Smart Thermal Management Systems Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE SMART THERMAL MANAGEMENT SYSTEMS BY REGION

4.1 Automotive Smart Thermal Management Systems Market Size by Region (2021-2026)

4.2 Global Automotive Smart Thermal Management Systems Annual Revenue by Country/Region (2021-2026)

4.3 Americas Automotive Smart Thermal Management Systems Market Size Growth (2021-2026)

4.4 APAC Automotive Smart Thermal Management Systems Market Size Growth (2021-2026)

4.5 Europe Automotive Smart Thermal Management Systems Market Size Growth (2021-2026)

4.6 Middle East & Africa Automotive Smart Thermal Management Systems Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Automotive Smart Thermal Management Systems Market Size by Country (2021-2026)

5.2 Americas Automotive Smart Thermal Management Systems Market Size by Type (2021-2026)

5.3 Americas Automotive Smart Thermal Management Systems Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive Smart Thermal Management Systems Market Size by Region

(2021-2026)

6.2 APAC Automotive Smart Thermal Management Systems Market Size by Type

(2021-2026)

6.3 APAC Automotive Smart Thermal Management Systems Market Size by
Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Automotive Smart Thermal Management Systems Market Size by Country
(2021-2026)

7.2 Europe Automotive Smart Thermal Management Systems Market Size by Type
(2021-2026)

7.3 Europe Automotive Smart Thermal Management Systems Market Size by
Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Smart Thermal Management Systems by Region
(2021-2026)

8.2 Middle East & Africa Automotive Smart Thermal Management Systems Market
Size by Type (2021-2026)

8.3 Middle East & Africa Automotive Smart Thermal Management Systems Market
Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL AUTOMOTIVE SMART THERMAL MANAGEMENT SYSTEMS MARKET FORECAST

10.1 Global Automotive Smart Thermal Management Systems Forecast by Region (2027-2032)

10.1.1 Global Automotive Smart Thermal Management Systems Forecast by Region (2027-2032)

10.1.2 Americas Automotive Smart Thermal Management Systems Forecast

10.1.3 APAC Automotive Smart Thermal Management Systems Forecast

10.1.4 Europe Automotive Smart Thermal Management Systems Forecast

10.1.5 Middle East & Africa Automotive Smart Thermal Management Systems Forecast

10.2 Americas Automotive Smart Thermal Management Systems Forecast by Country (2027-2032)

10.2.1 United States Market Automotive Smart Thermal Management Systems Forecast

10.2.2 Canada Market Automotive Smart Thermal Management Systems Forecast

10.2.3 Mexico Market Automotive Smart Thermal Management Systems Forecast

10.2.4 Brazil Market Automotive Smart Thermal Management Systems Forecast

10.3 APAC Automotive Smart Thermal Management Systems Forecast by Region (2027-2032)

10.3.1 China Automotive Smart Thermal Management Systems Market Forecast

10.3.2 Japan Market Automotive Smart Thermal Management Systems Forecast

10.3.3 Korea Market Automotive Smart Thermal Management Systems Forecast

10.3.4 Southeast Asia Market Automotive Smart Thermal Management Systems Forecast

10.3.5 India Market Automotive Smart Thermal Management Systems Forecast

10.3.6 Australia Market Automotive Smart Thermal Management Systems Forecast

10.4 Europe Automotive Smart Thermal Management Systems Forecast by Country (2027-2032)

10.4.1 Germany Market Automotive Smart Thermal Management Systems Forecast

10.4.2 France Market Automotive Smart Thermal Management Systems Forecast

- 10.4.3 UK Market Automotive Smart Thermal Management Systems Forecast
- 10.4.4 Italy Market Automotive Smart Thermal Management Systems Forecast
- 10.4.5 Russia Market Automotive Smart Thermal Management Systems Forecast
- 10.5 Middle East & Africa Automotive Smart Thermal Management Systems Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Automotive Smart Thermal Management Systems Forecast
 - 10.5.2 South Africa Market Automotive Smart Thermal Management Systems Forecast
 - 10.5.3 Israel Market Automotive Smart Thermal Management Systems Forecast
 - 10.5.4 Turkey Market Automotive Smart Thermal Management Systems Forecast
- 10.6 Global Automotive Smart Thermal Management Systems Forecast by Type (2027-2032)
- 10.7 Global Automotive Smart Thermal Management Systems Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Automotive Smart Thermal Management Systems Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 DENSO
 - 11.1.1 DENSO Company Information
 - 11.1.2 DENSO Automotive Smart Thermal Management Systems Product Offered
 - 11.1.3 DENSO Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.1.4 DENSO Main Business Overview
 - 11.1.5 DENSO Latest Developments
- 11.2 Hanon Systems
 - 11.2.1 Hanon Systems Company Information
 - 11.2.2 Hanon Systems Automotive Smart Thermal Management Systems Product Offered
 - 11.2.3 Hanon Systems Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 Hanon Systems Main Business Overview
 - 11.2.5 Hanon Systems Latest Developments
- 11.3 Valeo
 - 11.3.1 Valeo Company Information
 - 11.3.2 Valeo Automotive Smart Thermal Management Systems Product Offered
 - 11.3.3 Valeo Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Valeo Main Business Overview

11.3.5 Valeo Latest Developments

11.4 MAHLE GmbH

11.4.1 MAHLE GmbH Company Information

11.4.2 MAHLE GmbH Automotive Smart Thermal Management Systems Product Offered

11.4.3 MAHLE GmbH Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.4.4 MAHLE GmbH Main Business Overview

11.4.5 MAHLE GmbH Latest Developments

11.5 Sanhua Intelligent Controls

11.5.1 Sanhua Intelligent Controls Company Information

11.5.2 Sanhua Intelligent Controls Automotive Smart Thermal Management Systems Product Offered

11.5.3 Sanhua Intelligent Controls Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.5.4 Sanhua Intelligent Controls Main Business Overview

11.5.5 Sanhua Intelligent Controls Latest Developments

11.6 Sanden

11.6.1 Sanden Company Information

11.6.2 Sanden Automotive Smart Thermal Management Systems Product Offered

11.6.3 Sanden Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.6.4 Sanden Main Business Overview

11.6.5 Sanden Latest Developments

11.7 Aotecar

11.7.1 Aotecar Company Information

11.7.2 Aotecar Automotive Smart Thermal Management Systems Product Offered

11.7.3 Aotecar Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 Aotecar Main Business Overview

11.7.5 Aotecar Latest Developments

11.8 Yinlun Machinery

11.8.1 Yinlun Machinery Company Information

11.8.2 Yinlun Machinery Automotive Smart Thermal Management Systems Product Offered

11.8.3 Yinlun Machinery Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 Yinlun Machinery Main Business Overview

11.8.5 Yinlun Machinery Latest Developments

11.9 HASCO

11.9.1 HASCO Company Information

11.9.2 HASCO Automotive Smart Thermal Management Systems Product Offered

11.9.3 HASCO Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 HASCO Main Business Overview

11.9.5 HASCO Latest Developments

11.10 Songz Automobile Air Conditioning

11.10.1 Songz Automobile Air Conditioning Company Information

11.10.2 Songz Automobile Air Conditioning Automotive Smart Thermal Management Systems Product Offered

11.10.3 Songz Automobile Air Conditioning Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 Songz Automobile Air Conditioning Main Business Overview

11.10.5 Songz Automobile Air Conditioning Latest Developments

11.11 Tuopu Group

11.11.1 Tuopu Group Company Information

11.11.2 Tuopu Group Automotive Smart Thermal Management Systems Product Offered

11.11.3 Tuopu Group Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.11.4 Tuopu Group Main Business Overview

11.11.5 Tuopu Group Latest Developments

11.12 Zhongding Group

11.12.1 Zhongding Group Company Information

11.12.2 Zhongding Group Automotive Smart Thermal Management Systems Product Offered

11.12.3 Zhongding Group Automotive Smart Thermal Management Systems Revenue, Gross Margin and Market Share (2021-2026)

11.12.4 Zhongding Group Main Business Overview

11.12.5 Zhongding Group Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Automotive Smart Thermal Management Systems Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Automotive Smart Thermal Management Systems Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Powertrain System

Table 4. Major Players of Passenger Cabin Thermal Management System

Table 5. Major Players of Motor Control Thermal Management System

Table 6. Major Players of Battery Thermal Management System

Table 7. Automotive Smart Thermal Management Systems Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 8. Global Automotive Smart Thermal Management Systems Market Size by Type (2021-2026) & (\$ millions)

Table 9. Global Automotive Smart Thermal Management Systems Market Size Market Share by Type (2021-2026)

Table 10. Major Players of OEM

Table 11. Major Players of Aftermarket

Table 12. Automotive Smart Thermal Management Systems Market Size CAGR by Sales Channel (2021 VS 2025 VS 2032) & (\$ millions)

Table 13. Global Automotive Smart Thermal Management Systems Market Size by Sales Channel (2021-2026) & (\$ millions)

Table 14. Global Automotive Smart Thermal Management Systems Market Size Market Share by Sales Channel (2021-2026)

Table 15. Major Players of Split Type

Table 16. Major Players of Integrated Type

Table 17. Automotive Smart Thermal Management Systems Market Size CAGR by System Architecture (2021 VS 2025 VS 2032) & (\$ millions)

Table 18. Global Automotive Smart Thermal Management Systems Market Size by System Architecture (2021-2026) & (\$ millions)

Table 19. Global Automotive Smart Thermal Management Systems Market Size Market Share by System Architecture (2021-2026)

Table 20. Major Players of Internal Combustion Engines

Table 21. Major Players of New Energy Vehicles

Table 22. Automotive Smart Thermal Management Systems Market Size CAGR by Vehicle Power Source (2021 VS 2025 VS 2032) & (\$ millions)

Table 23. Global Automotive Smart Thermal Management Systems Market Size by

Vehicle Power Source (2021-2026) & (\$ millions)

Table 24. Global Automotive Smart Thermal Management Systems Market Size Market Share by Vehicle Power Source (2021-2026)

Table 25. Automotive Smart Thermal Management Systems Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 26. Global Automotive Smart Thermal Management Systems Market Size by Application (2021-2026) & (\$ millions)

Table 27. Global Automotive Smart Thermal Management Systems Market Size Market Share by Application (2021-2026)

Table 28. Global Automotive Smart Thermal Management Systems Revenue by Player (2021-2026) & (\$ millions)

Table 29. Global Automotive Smart Thermal Management Systems Revenue Market Share by Player (2021-2026)

Table 30. Automotive Smart Thermal Management Systems Key Players Head office and Products Offered

Table 31. Automotive Smart Thermal Management Systems Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 32. New Products and Potential Entrants

Table 33. Mergers & Acquisitions, Expansion

Table 34. Global Automotive Smart Thermal Management Systems Market Size by Region (2021-2026) & (\$ millions)

Table 35. Global Automotive Smart Thermal Management Systems Market Size Market Share by Region (2021-2026)

Table 36. Global Automotive Smart Thermal Management Systems Revenue by Country/Region (2021-2026) & (\$ millions)

Table 37. Global Automotive Smart Thermal Management Systems Revenue Market Share by Country/Region (2021-2026)

Table 38. Americas Automotive Smart Thermal Management Systems Market Size by Country (2021-2026) & (\$ millions)

Table 39. Americas Automotive Smart Thermal Management Systems Market Size Market Share by Country (2021-2026)

Table 40. Americas Automotive Smart Thermal Management Systems Market Size by Type (2021-2026) & (\$ millions)

Table 41. Americas Automotive Smart Thermal Management Systems Market Size Market Share by Type (2021-2026)

Table 42. Americas Automotive Smart Thermal Management Systems Market Size by Application (2021-2026) & (\$ millions)

Table 43. Americas Automotive Smart Thermal Management Systems Market Size Market Share by Application (2021-2026)

Table 44. APAC Automotive Smart Thermal Management Systems Market Size by Region (2021-2026) & (\$ millions)

Table 45. APAC Automotive Smart Thermal Management Systems Market Size Market Share by Region (2021-2026)

Table 46. APAC Automotive Smart Thermal Management Systems Market Size by Type (2021-2026) & (\$ millions)

Table 47. APAC Automotive Smart Thermal Management Systems Market Size by Application (2021-2026) & (\$ millions)

Table 48. Europe Automotive Smart Thermal Management Systems Market Size by Country (2021-2026) & (\$ millions)

Table 49. Europe Automotive Smart Thermal Management Systems Market Size Market Share by Country (2021-2026)

Table 50. Europe Automotive Smart Thermal Management Systems Market Size by Type (2021-2026) & (\$ millions)

Table 51. Europe Automotive Smart Thermal Management Systems Market Size by Application (2021-2026) & (\$ millions)

Table 52. Middle East & Africa Automotive Smart Thermal Management Systems Market Size by Region (2021-2026) & (\$ millions)

Table 53. Middle East & Africa Automotive Smart Thermal Management Systems Market Size by Type (2021-2026) & (\$ millions)

Table 54. Middle East & Africa Automotive Smart Thermal Management Systems Market Size by Application (2021-2026) & (\$ millions)

Table 55. Key Market Drivers & Growth Opportunities of Automotive Smart Thermal Management Systems

Table 56. Key Market Challenges & Risks of Automotive Smart Thermal Management Systems

Table 57. Key Industry Trends of Automotive Smart Thermal Management Systems

Table 58. Global Automotive Smart Thermal Management Systems Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 59. Global Automotive Smart Thermal Management Systems Market Size Market Share Forecast by Region (2027-2032)

Table 60. Global Automotive Smart Thermal Management Systems Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 61. Global Automotive Smart Thermal Management Systems Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 62. DENSO Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 63. DENSO Automotive Smart Thermal Management Systems Product Offered

Table 64. DENSO Automotive Smart Thermal Management Systems Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 65. DENSO Main Business

Table 66. DENSO Latest Developments

Table 67. Hanon Systems Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 68. Hanon Systems Automotive Smart Thermal Management Systems Product Offered

Table 69. Hanon Systems Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Hanon Systems Main Business

Table 71. Hanon Systems Latest Developments

Table 72. Valeo Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 73. Valeo Automotive Smart Thermal Management Systems Product Offered

Table 74. Valeo Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. Valeo Main Business

Table 76. Valeo Latest Developments

Table 77. MAHLE GmbH Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 78. MAHLE GmbH Automotive Smart Thermal Management Systems Product Offered

Table 79. MAHLE GmbH Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. MAHLE GmbH Main Business

Table 81. MAHLE GmbH Latest Developments

Table 82. Sanhua Intelligent Controls Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 83. Sanhua Intelligent Controls Automotive Smart Thermal Management Systems Product Offered

Table 84. Sanhua Intelligent Controls Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Sanhua Intelligent Controls Main Business

Table 86. Sanhua Intelligent Controls Latest Developments

Table 87. Sanden Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 88. Sanden Automotive Smart Thermal Management Systems Product Offered

Table 89. Sanden Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. Sanden Main Business

Table 91. Sanden Latest Developments

Table 92. Aotecar Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 93. Aotecar Automotive Smart Thermal Management Systems Product Offered

Table 94. Aotecar Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. Aotecar Main Business

Table 96. Aotecar Latest Developments

Table 97. Yinlun Machinery Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 98. Yinlun Machinery Automotive Smart Thermal Management Systems Product Offered

Table 99. Yinlun Machinery Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Yinlun Machinery Main Business

Table 101. Yinlun Machinery Latest Developments

Table 102. HASCO Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 103. HASCO Automotive Smart Thermal Management Systems Product Offered

Table 104. HASCO Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. HASCO Main Business

Table 106. HASCO Latest Developments

Table 107. Songz Automobile Air Conditioning Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 108. Songz Automobile Air Conditioning Automotive Smart Thermal Management Systems Product Offered

Table 109. Songz Automobile Air Conditioning Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. Songz Automobile Air Conditioning Main Business

Table 111. Songz Automobile Air Conditioning Latest Developments

Table 112. Tuopu Group Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 113. Tuopu Group Automotive Smart Thermal Management Systems Product Offered

Table 114. Tuopu Group Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. Tuopu Group Main Business

Table 116. Tuopu Group Latest Developments

Table 117. Zhongding Group Details, Company Type, Automotive Smart Thermal Management Systems Area Served and Its Competitors

Table 118. Zhongding Group Automotive Smart Thermal Management Systems Product Offered

Table 119. Zhongding Group Automotive Smart Thermal Management Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 120. Zhongding Group Main Business

Table 121. Zhongding Group Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Smart Thermal Management Systems Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Automotive Smart Thermal Management Systems Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Automotive Smart Thermal Management Systems Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Automotive Smart Thermal Management Systems Sales Market Share by Country/Region (2025)

Figure 8. Automotive Smart Thermal Management Systems Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Automotive Smart Thermal Management Systems Market Size Market Share by Type in 2025

Figure 10. Global Automotive Smart Thermal Management Systems Market Size Market Share by Sales Channel in 2025

Figure 11. Global Automotive Smart Thermal Management Systems Market Size Market Share by System Architecture in 2025

Figure 12. Global Automotive Smart Thermal Management Systems Market Size Market Share by Vehicle Power Source in 2025

Figure 13. Automotive Smart Thermal Management Systems in Passenger Cars

Figure 14. Global Automotive Smart Thermal Management Systems Market: Passenger Cars (2021-2026) & (\$ millions)

Figure 15. Automotive Smart Thermal Management Systems in Commercial Vehicles

Figure 16. Global Automotive Smart Thermal Management Systems Market: Commercial Vehicles (2021-2026) & (\$ millions)

Figure 17. Global Automotive Smart Thermal Management Systems Market Size Market Share by Application in 2025

Figure 18. Global Automotive Smart Thermal Management Systems Revenue Market Share by Player in 2025

Figure 19. Global Automotive Smart Thermal Management Systems Market Size Market Share by Region (2021-2026)

Figure 20. Americas Automotive Smart Thermal Management Systems Market Size 2021-2026 (\$ millions)

Figure 21. APAC Automotive Smart Thermal Management Systems Market Size

2021-2026 (\$ millions)

Figure 22. Europe Automotive Smart Thermal Management Systems Market Size

2021-2026 (\$ millions)

Figure 23. Middle East & Africa Automotive Smart Thermal Management Systems

Market Size 2021-2026 (\$ millions)

Figure 24. Americas Automotive Smart Thermal Management Systems Value Market
Share by Country in 2025

Figure 25. United States Automotive Smart Thermal Management Systems Market Size
Growth 2021-2026 (\$ millions)

Figure 26. Canada Automotive Smart Thermal Management Systems Market Size
Growth 2021-2026 (\$ millions)

Figure 27. Mexico Automotive Smart Thermal Management Systems Market Size
Growth 2021-2026 (\$ millions)

Figure 28. Brazil Automotive Smart Thermal Management Systems Market Size Growth
2021-2026 (\$ millions)

Figure 29. APAC Automotive Smart Thermal Management Systems Market Size Market
Share by Region in 2025

Figure 30. APAC Automotive Smart Thermal Management Systems Market Size Market
Share by Type (2021-2026)

Figure 31. APAC Automotive Smart Thermal Management Systems Market Size Market
Share by Application (2021-2026)

Figure 32. China Automotive Smart Thermal Management Systems Market Size Growth
2021-2026 (\$ millions)

Figure 33. Japan Automotive Smart Thermal Management Systems Market Size Growth
2021-2026 (\$ millions)

Figure 34. South Korea Automotive Smart Thermal Management Systems Market Size
Growth 2021-2026 (\$ millions)

Figure 35. Southeast Asia Automotive Smart Thermal Management Systems Market
Size Growth 2021-2026 (\$ millions)

Figure 36. India Automotive Smart Thermal Management Systems Market Size Growth
2021-2026 (\$ millions)

Figure 37. Australia Automotive Smart Thermal Management Systems Market Size
Growth 2021-2026 (\$ millions)

Figure 38. Europe Automotive Smart Thermal Management Systems Market Size
Market Share by Country in 2025

Figure 39. Europe Automotive Smart Thermal Management Systems Market Size
Market Share by Type (2021-2026)

Figure 40. Europe Automotive Smart Thermal Management Systems Market Size
Market Share by Application (2021-2026)

Figure 41. Germany Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 42. France Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 43. UK Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 44. Italy Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 45. Russia Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Automotive Smart Thermal Management Systems Market Size Market Share by Region (2021-2026)

Figure 47. Middle East & Africa Automotive Smart Thermal Management Systems Market Size Market Share by Type (2021-2026)

Figure 48. Middle East & Africa Automotive Smart Thermal Management Systems Market Size Market Share by Application (2021-2026)

Figure 49. Egypt Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 50. South Africa Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 51. Israel Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 52. Turkey Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 53. GCC Countries Automotive Smart Thermal Management Systems Market Size Growth 2021-2026 (\$ millions)

Figure 54. Americas Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 55. APAC Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 56. Europe Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 57. Middle East & Africa Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 58. United States Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 59. Canada Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 60. Mexico Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 61. Brazil Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 62. China Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 63. Japan Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 64. Korea Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 65. Southeast Asia Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

Figure 66. India Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 67. Australia Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 68. Germany Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 69. France Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 70. UK Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 71. Italy Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 72. Russia Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 73. Egypt Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 74. South Africa Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 75. Israel Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 76. Turkey Automotive Smart Thermal Management Systems Market Size

2027-2032 (\$ millions)

Figure 77. Global Automotive Smart Thermal Management Systems Market Size Market Share Forecast by Type (2027-2032)

Figure 78. Global Automotive Smart Thermal Management Systems Market Size Market Share Forecast by Application (2027-2032)

Figure 79. GCC Countries Automotive Smart Thermal Management Systems Market Size 2027-2032 (\$ millions)

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