

Global Electric Coolant Pump Market Size Study, by Type (Full-size, Mid-size, Compact-size, Mini-size, Others), by Vehicle Type (Passenger Cars, Light Commercial Vehicles, Heavy Commercial Vehicles, Electric Vehicles, Others), by Application (Engine Cooling, Battery Cooling, Turbocharger Cooling, Others), by Propulsion Type (BEVs, PHEVs, HEVs, ICE Vehicles, FCEVs), by Technology (Electric, Mechanical, Hydraulic) and Regional Forecasts 2024-2032

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Abstracts

The Global Electric Coolant Pump Market was valued at approximately USD 1.68 billion in 2023 and is projected to grow at a robust CAGR of 12.8% during the forecast period 2024-2032. The electric coolant pump, a critical component in both internal combustion engines and electric vehicles, is pivotal in circulating engine coolant to maintain optimal temperature. Key advantages of electric coolant pumps over traditional mechanical pumps include higher efficiency, reduced emissions, and lower parasitic losses. The market is significantly driven by stringent emission norms, increasing vehicle electrification, and advancements in pump technology. The technical benefits of electric coolant pumps, such as control over coolant flow requirements, contribute to reduced fuel consumption and exhaust emissions. These pumps are compatible with different engine capacities, enhancing their application across various vehicle models. Additional advantages, including faster heater response after a cold start and flexible installation within the engine compartment, are boosting their popularity among automakers. As powertrain electrification advances, the use of electric coolant pumps for electric and

hybrid vehicles is expected to grow substantially.

Turbocharged engines, which require higher cooling performance than conventional engines, significantly drive the market. The increasing demand for Turbocharged Gasoline Direct Injection (TGDI) engines, due to their reduced emissions and higher fuel efficiency, further propels market growth. Despite their higher product cost and maintenance requirements, electric coolant pumps offer substantial operational benefits, making them a preferred choice in the automotive industry.

Strategic partnerships between OEMs and advancements in electric coolant pump technology present lucrative opportunities for market players. Collaborations and innovations are expected to enhance product performance, leading to increased adoption across various vehicle models. However, the complex design and electronic components of electric coolant pumps pose challenges, including higher costs and potential failures.

The Asia Pacific region is anticipated to dominate the market during the forecast period, driven by rising sales of electric vehicles, supportive government policies, and collaborations between key players and OEMs. The region's strong automotive industry and shifting consumer preferences towards electric vehicles contribute to this growth. Whereas, the market in Europe is anticipated to grow at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Robert Bosch GmbH

Continental AG

Mahle GmbH

Denso Corporation

Rheinmetall AG

Aisin Seiki Co., Ltd.

Hanon Systems

Johnson Electric Holdings Limited

Valeo S.A.

BorgWarner Inc.

Gates Corporation

Delphi Technologies

Magna International Inc.

Hitachi Automotive Systems, Ltd.

Schaeffler Group

The detailed segments and sub-segment of the market are explained below:

By Type:

Full-size

Mid-size

Compact-size

Mini-size

Others

By Vehicle Type:

Passenger Cars

Light Commercial Vehicles

Heavy Commercial Vehicles

Electric Vehicles

Others

By Application:

Engine Cooling

Battery Cooling

Turbocharger Cooling

Others

By Propulsion Type:

BEVs

PHEVs

HEVs

ICE Vehicles

FCEVs

By Technology:

Electric

Mechanical

Hydraulic

By Region:

Global Electric Coolant Pump Market Size Study, by Type (Full-size, Mid-size, Compact-size, Mini-size, Others)...

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL ELECTRIC COOLANT PUMP MARKET EXECUTIVE SUMMARY

- 1.1. Global Electric Coolant Pump Market Size & Forecast (2024- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Type
 - 1.3.2. By Vehicle Type
 - 1.3.3. By Application
 - 1.3.4. By Propulsion Type
 - 1.3.5. By Technology
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL ELECTRIC COOLANT PUMP MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL ELECTRIC COOLANT PUMP MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Technical benefits of electric coolant pumps over mechanical pumps
- 3.1.2. Increasing sales of turbocharged engines

3.2. Market Challenges

- 3.2.1. Relatively high product cost and maintenance
- 3.2.2. Complex Design with Different Electronics Leads to Failure of Electric Coolant Pump Many Times

3.3. Market Opportunities

- 3.3.1. Development of advanced electric coolant pump technology and strategic partnerships between OEMs
- 3.3.2. Increasing adoption in electric vehicles and hybrid technologies

CHAPTER 4. GLOBAL ELECTRIC COOLANT PUMP MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY TYPE 2024-2032

5.1. Segment Dashboard

5.2. Global Electric Coolant Pump Market: Type Revenue Trend Analysis, 2024 & 2032 (USD Billion)

5.2.1. Full-size

5.2.2. Mid-size

5.2.3. Compact-size

5.2.4. Mini-size

5.2.5. Others

CHAPTER 6. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY VEHICLE TYPE 2024-2032

6.1. Segment Dashboard

6.2. Global Electric Coolant Pump Market: Vehicle Type Revenue Trend Analysis, 2024 & 2032 (USD Billion)

6.2.1. Passenger Cars

6.2.2. Light Commercial Vehicles

6.2.3. Heavy Commercial Vehicles

6.2.4. Electric Vehicles

6.2.5. Others

CHAPTER 7. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY APPLICATION 2024-2032

7.1. Segment Dashboard

7.2. Global Electric Coolant Pump Market: Application Revenue Trend Analysis, 2024 & 2032 (USD Billion)

7.2.1. Engine Cooling

7.2.2. Battery Cooling

7.2.3. Turbocharger Cooling

7.2.4. Others

CHAPTER 8. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY PROPULSION TYPE 2024-2032

8.1. Segment Dashboard

8.2. Global Electric Coolant Pump Market: Propulsion Type Revenue Trend Analysis, 2024 & 2032 (USD Billion)

- 8.2.1. BEVs
- 8.2.2. PHEVs
- 8.2.3. HEVs
- 8.2.4. ICE Vehicles
- 8.2.5. FCEVs

CHAPTER 9. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY TECHNOLOGY 2024-2032

9.1. Segment Dashboard

9.2. Global Electric Coolant Pump Market: Technology Revenue Trend Analysis, 2024 & 2032 (USD Billion)

- 9.2.1. Electric
- 9.2.2. Mechanical
- 9.2.3. Hydraulic

CHAPTER 10. GLOBAL ELECTRIC COOLANT PUMP MARKET SIZE & FORECASTS BY REGION 2024-2032

10.1. North America Electric Coolant Pump Market

10.1.1. U.S. Electric Coolant Pump Market

- 10.1.1.1. Type breakdown size & forecasts, 2024-2032
- 10.1.1.2. Vehicle Type breakdown size & forecasts, 2024-2032
- 10.1.1.3. Application breakdown size & forecasts, 2024-2032
- 10.1.1.4. Propulsion Type breakdown size & forecasts, 2024-2032
- 10.1.1.5. Technology breakdown size & forecasts, 2024-2032

10.1.2. Canada Electric Coolant Pump Market

- 10.1.2.1. Type breakdown size & forecasts, 2024-2032
- 10.1.2.2. Vehicle Type breakdown size & forecasts, 2024-2032
- 10.1.2.3. Application breakdown size & forecasts, 2024-2032
- 10.1.2.4. Propulsion Type breakdown size & forecasts, 2024-2032
- 10.1.2.5. Technology breakdown size & forecasts, 2024-2032

10.2. Europe Electric Coolant Pump Market

- 10.2.1. U.K. Electric Coolant Pump Market
- 10.2.2. Germany Electric Coolant Pump Market
- 10.2.3. France Electric Coolant Pump Market
- 10.2.4. Spain Electric Coolant Pump Market

- 10.2.5. Italy Electric Coolant Pump Market
- 10.2.6. Rest of Europe Electric Coolant Pump Market
- 10.3. Asia-Pacific Electric Coolant Pump Market
 - 10.3.1. China Electric Coolant Pump Market
 - 10.3.2. India Electric Coolant Pump Market
 - 10.3.3. Japan Electric Coolant Pump Market
 - 10.3.4. Australia Electric Coolant Pump Market
 - 10.3.5. South Korea Electric Coolant Pump Market
 - 10.3.6. Rest of Asia Pacific Electric Coolant Pump Market
- 10.4. Latin America Electric Coolant Pump Market
 - 10.4.1. Brazil Electric Coolant Pump Market
 - 10.4.2. Mexico Electric Coolant Pump Market
 - 10.4.3. Rest of Latin America Electric Coolant Pump Market
- 10.5. Middle East & Africa Electric Coolant Pump Market
 - 10.5.1. Saudi Arabia Electric Coolant Pump Market
 - 10.5.2. South Africa Electric Coolant Pump Market
 - 10.5.3. Rest of Middle East & Africa Electric Coolant Pump Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. Company
 - 11.1.2. Company
 - 11.1.3. Company
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. Robert Bosch GmbH
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. Continental AG
 - 11.3.3. Mahle GmbH
 - 11.3.4. Denso Corporation
 - 11.3.2. Rheinmetall AG
 - 11.3.5. Aisin Seiki Co., Ltd.
 - 11.3.6. Hanon Systems
 - 11.3.7. Johnson Electric Holdings Limited

- 11.3.8. Valeo S.A.
- 11.3.9. BorgWarner Inc.
- 11.3.10. Gates Corporation
- 11.3.11. Delphi Technologies
- 11.3.12. Magna International Inc.
- 11.3.13. Hitachi Automotive Systems, Ltd.
- 11.3.14. Schaeffler Group

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Electric Coolant Pump Market, Report Scope

TABLE 2. Global Electric Coolant Pump Market Estimates & Forecasts by Region
2024-2032 (USD Billion)

TABLE 3. Global Electric Coolant Pump Market Estimates & Forecasts by Type
2024-2032 (USD Billion)

TABLE 4. Global Electric Coolant Pump Market Estimates & Forecasts by Vehicle Type
2024-2032 (USD Billion)

TABLE 5. Global Electric Coolant Pump Market Estimates & Forecasts by Application
2024-2032 (USD Billion)

TABLE 6. Global Electric Coolant Pump Market by Segment, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 7. Global Electric Coolant Pump Market by Region, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 8. Global Electric Coolant Pump Market by Segment, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 9. Global Electric Coolant Pump Market by Region, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 10. Global Electric Coolant Pump Market by Segment, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 11. Global Electric Coolant Pump Market by Region, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 12. Global Electric Coolant Pump Market by Segment, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 13. Global Electric Coolant Pump Market by Region, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 14. Global Electric Coolant Pump Market by Segment, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 15. Global Electric Coolant Pump Market by Region, Estimates & Forecasts,
2024-2032 (USD Billion)

TABLE 16. U.S. Electric Coolant Pump Market Estimates & Forecasts, 2024-2032 (USD Billion)

TABLE 17. U.S. Electric Coolant Pump Market Estimates & Forecasts by Segment
2024-2032 (USD Billion)

TABLE 18. U.S. Electric Coolant Pump Market Estimates & Forecasts by Segment
2024-2032 (USD Billion)

TABLE 19. Canada Electric Coolant Pump Market Estimates & Forecasts, 2024-2032
(USD Billion)

TABLE 20. Canada Electric Coolant Pump Market Estimates & Forecasts by Segment
2024-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Electric Coolant Pump Market, Research Methodology
- FIG 2. Global Electric Coolant Pump Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods.
- FIG 4. Global Electric Coolant Pump Market, Key Trends 2024
- FIG 5. Global Electric Coolant Pump Market, Growth Prospects 2024-2032
- FIG 6. Global Electric Coolant Pump Market, Porter's 5 Force Model
- FIG 7. Global Electric Coolant Pump Market, PESTEL Analysis
- FIG 8. Global Electric Coolant Pump Market, Value Chain Analysis
- FIG 9. Global Electric Coolant Pump Market by Segment, 2024 & 2032 (USD Billion)
- FIG 10. Global Electric Coolant Pump Market by Segment, 2024 & 2032 (USD Billion)
- FIG 11. Global Electric Coolant Pump Market by Segment, 2024 & 2032 (USD Billion)
- FIG 12. Global Electric Coolant Pump Market by Segment, 2024 & 2032 (USD Billion)
- FIG 13. Global Electric Coolant Pump Market by Segment, 2024 & 2032 (USD Billion)
- FIG 14. Global Electric Coolant Pump Market, Regional Snapshot 2024 & 2032
- FIG 15. North America Electric Coolant Pump Market 2024 & 2032 (USD Billion)
- FIG 16. Europe Electric Coolant Pump Market 2024 & 2032 (USD Billion)
- FIG 17. Asia Pacific Electric Coolant Pump Market 2024 & 2032 (USD Billion)
- FIG 18. Latin America Electric Coolant Pump Market 2024 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Electric Coolant Pump Market 2024 & 2032 (USD Billion)
- FIG 20. Global Electric Coolant Pump Market, Company Market Share Analysis (2023)

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