

North America Electric Vehicle Heat Pump Systems Market Forecast to 2031 - Regional Analysis - by Propulsion Type (BEV, HEV, and PHEV), Component (Evaporator, Condenser, Compressors, and Others), and Vehicle Type (Passenger Vehicle and Commercial Vehicle)

<https://marketpublishers.com/r/N7277EF7DAF7EN.html>

Date: April 2025

Pages: 124

Price: US\$ 3,450.00 (Single User License)

ID: N7277EF7DAF7EN

Abstracts

The North America electric vehicle heat pump systems market was valued at US\$ 147.67 million in 2023 and is expected to reach US\$ 611.28 million by 2031; it is estimated to register a CAGR of 19.4% from 2023 to 2031.

Increasing Demand for Energy-Efficient Heating Systems to Expand Driving Range Fuels North America Electric Vehicle Heat Pump Systems Market

Popular electric vehicles (EVs) largely use lithium-ion batteries to power their electric motors. These types of batteries have an ideal operating temperature range that appears to be anywhere between 50°F and 110°F, with a few publishers agreeing on an optimal temperature range of 70°F. At subzero temperatures, lithium-ion batteries do not store energy appropriately, resulting in poor performance. The range of a few electric vehicles drops from a manageable 10% to ~36% in freezing weather. This loss of range is not solely due to the lithium-ion batteries but also depends on the utilization of stored energy. Further, the amount of energy extracted from batteries to heat a resistor and then blow air through it to keep the interior of the vehicle warm has resulted in deterioration of the battery. Hence, heat pumps are important in providing heating to the battery. Heat pumps warm the interior of the car more efficiently than simply drawing energy from the batteries. Heat pump systems are not range extenders themselves but rather a tool that allows electric vehicles to be more efficient and not lose as many

ranges in subzero temperatures. Also, in cold weather conditions, it is not easy to start the car and reduce the available power. Owing to such challenges, there is a rise in demand for heat pump systems, which help keep the ideal battery temperature and increase the range by saving the energy required to warm the passenger compartment in cold weather conditions. Therefore, the rise in demand for energy-efficient heating systems to expand the driving range fuels the electric vehicle heat pump system market growth.

North America Electric Vehicle Heat Pump Systems Market Overview

North America is one of the primary adopters of electric vehicles (EVs), owing to the adoption of technological advancements and the presence of key electric vehicle market players such as Ford Motor Company, Tesla Inc., The General Motors Company, and Lucid Group Inc. These players drive the automotive industry's development through various strategic initiatives such as new introduction, partnerships, and advancing features of existing products through research and development and collaborations. The North American automotive market is showing a positive sign with the rising automotive production. In 2023, sales of new electric light-duty vehicles in the US reached about ~1.4 million, which increased from nearly 1 million in 2022, resulting in a sales share of about 9%. As the automotive industry is witnessing a rapid transition toward electrification, such data shows that North America is one of the lucrative markets for electric vehicle heat pump systems. The mounting awareness of environmental protection among consumers is one of the leading considerations steering EV adoption in North America. Owing to government incentives and tax benefits, the prices of EVs have dropped slightly in recent years. Thus, the rising affordability of EVs is acting as a major driver for the electric vehicle heat pump systems market growth in North America. Companies performing in the automotive sector are focusing on strengthening their vehicle electrification agenda by expanding production facilities across North America. In 2023, Toyota announced for assembly of an all-new, three-row, battery electric SUV at Toyota Kentucky starting in 2025. The BEV is projected to be powered by batteries fabricated by Toyota North Carolina. The new battery plant in North Carolina is under construction and is anticipated to secure an additional US\$ 2.1 billion investment to support the company's initiative toward carbon neutrality. Thus, the advancements in EV production propel the demand for electric vehicle heat pump systems in the region.

North America Electric Vehicle Heat Pump Systems Market Revenue and Forecast to 2031 (US\$ Million)

North America Electric Vehicle Heat Pump Systems Market Segmentation

The North America electric vehicle heat pump systems market is categorized into propulsion type, component, vehicle type, and country.

Based on propulsion type, the North America electric vehicle heat pump systems market is categorized into BEV, HEV, and PHEV. The BEV segment held the largest market share in 2023.

In terms of component, the North America electric vehicle heat pump systems market is categorized into evaporator, condenser, compressors, and others. The compressors segment held the largest market share in 2023.

By vehicle type, the North America electric vehicle heat pump systems market is bifurcated into passenger vehicle and commercial vehicle. The passenger vehicle segment held a larger market share in 2023.

By country, the North America electric vehicle heat pump systems market is segmented into the US, Canada, and Mexico. The US dominated the North America electric vehicle heat pump systems market share in 2023.

Denso Corp, Modine Manufacturing Co, Hanon Systems, Mahle GmbH, Rheinmetall AG, Valeo SE, Mitsubishi Heavy Industries Ltd, TitanX Holding AB, SANDEN Corp, and Highly Marelli Holdings Co., Ltd. are some of the leading companies operating in the North America electric vehicle heat pump systems market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America electric vehicle heat pump systems market.

Highlights key business priorities to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the North America electric vehicle heat pump systems market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering

developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the North America electric vehicle heat pump systems market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - North America Electric Vehicle Heat Pump Systems Market

Denso Corp

Modine Manufacturing Co

Hanon Systems

Mahle GmbH

Rheinmetall AG

Valeo SE

Mitsubishi Heavy Industries Ltd

TitanX Holding AB

SANDEN Corp

Highly Marelli Holdings Co., Ltd.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.1 Developing base number:
 - 3.2.2 Data Triangulation:
 - 3.2.3 Country level data:

4. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 Raw Material and Component Suppliers
 - 4.2.2 Electric Vehicle Heat Pump System Manufacturers
 - 4.2.3 End User
 - 4.2.4 List of Vendors in the Value Chain

5. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Demand for Energy-Efficient Heating Systems to Expand Driving Range
 - 5.1.2 Government Initiatives toward Vehicle Electrification

5.2 Market Restraints

5.2.1 High Initial Cost of Heat Pump Systems

5.3 Market Opportunities

5.3.1 Key Strategic Developments in EV Heat Pump Systems

5.4 Future Trends

5.4.1 Role of Electric Vehicles in Energy Transition

5.5 Impact of Drivers and Restraints:

6. ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET - NORTH AMERICA ANALYSIS

6.1 North America Electric Vehicle Heat Pump Systems Market Overview

6.2 Electric Vehicle Heat Pump Systems Market Revenue (US\$ Million), 2021-2031

6.3 Electric Vehicle Heat Pump Systems Market Forecast Analysis

7. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET ANALYSIS - BY PROPULSION TYPE

7.1 BEV

7.1.1 Overview

7.1.2 BEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

7.2 HEV

7.2.1 Overview

7.2.2 HEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

7.3 PHEV

7.3.1 Overview

7.3.2 PHEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

8. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET ANALYSIS - BY COMPONENT

8.1 Evaporator

8.1.1 Overview

8.1.2 Evaporator: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

8.2 Condenser

8.2.1 Overview

8.2.2 Condenser: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

8.3 Compressors

8.3.1 Overview

8.3.2 Compressors: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

8.4 Others

8.4.1 Overview

8.4.2 Others: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

9. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET ANALYSIS - BY VEHICLE TYPE

9.1 Passenger Vehicle

9.1.1 Overview

9.1.2 Passenger Vehicle: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

9.2 Commercial Vehicle

9.2.1 Overview

9.2.2 Commercial Vehicle: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

10. NORTH AMERICA ELECTRIC VEHICLE HEAT PUMP SYSTEMS MARKET - COUNTRY ANALYSIS

10.1 North America

10.1.1 North America: Electric Vehicle Heat Pump Systems Market Breakdown, by Key Country, 2023 and 2031 (%)

10.1.1.1 North America: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast Analysis - by Country

10.1.1.2 United States: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

10.1.1.2.1 United States: Electric Vehicle Heat Pump Systems Market Breakdown, by Propulsion Type

10.1.1.2.2 United States: Electric Vehicle Heat Pump Systems Market Breakdown, by Component

10.1.1.2.3 United States: Electric Vehicle Heat Pump Systems Market Breakdown,

by Vehicle Type

10.1.1.3 Canada: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

10.1.1.3.1 Canada: Electric Vehicle Heat Pump Systems Market Breakdown, by Propulsion Type

10.1.1.3.2 Canada: Electric Vehicle Heat Pump Systems Market Breakdown, by Component

10.1.1.3.3 Canada: Electric Vehicle Heat Pump Systems Market Breakdown, by Vehicle Type

10.1.1.4 Mexico: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

10.1.1.4.1 Mexico: Electric Vehicle Heat Pump Systems Market Breakdown, by Propulsion Type

10.1.1.4.2 Mexico: Electric Vehicle Heat Pump Systems Market Breakdown, by Component

10.1.1.4.3 Mexico: Electric Vehicle Heat Pump Systems Market Breakdown, by Vehicle Type

11. COMPETITIVE LANDSCAPE

11.1 Company Positioning & Concentration

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 Product Development

13. COMPANY PROFILES

13.1 Denso Corp

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 Modine Manufacturing Co

13.2.1 Key Facts

- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 Hanon Systems
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Mahle GmbH
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Rheinmetall AG
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Valeo SE
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Mitsubishi Heavy Industries Ltd
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis

- 13.7.6 Key Developments
- 13.8 TitanX Holding AB
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 SANDEN Corp
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Highly Marelli Holdings Co., Ltd.
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

- 14.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. North America Electric Vehicle Heat Pump Systems Market Segmentation

Table 2. List of Vendors

Table 3. Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

Table 4. Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Propulsion Type

Table 5. Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Component

Table 6. Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Vehicle Type

Table 7. North America: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Country

Table 8. United States: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Propulsion Type

Table 9. United States: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Component

Table 10. United States: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Vehicle Type

Table 11. Canada: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Propulsion Type

Table 12. Canada: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Component

Table 13. Canada: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Vehicle Type

Table 14. Mexico: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Propulsion Type

Table 15. Mexico: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Component

Table 16. Mexico: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million) - by Vehicle Type

List Of Figures

LIST OF FIGURES

- Figure 1. North America Electric Vehicle Heat Pump Systems Market Segmentation, by Country
- Figure 2. Ecosystem Analysis
- Figure 3. Electric Vehicle Heat Pump Systems Market - Key Market Dynamics
- Figure 4. Impact Analysis of Drivers and Restraints
- Figure 5. Electric Vehicle Heat Pump Systems Market Revenue (US\$ Million), 2021-2031
- Figure 6. Electric Vehicle Heat Pump Systems Market Share (%) - by Propulsion Type (2023 and 2031)
- Figure 7. BEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 8. HEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 9. PHEV: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 10. Electric Vehicle Heat Pump Systems Market Share (%) - by Component (2023 and 2031)
- Figure 11. Evaporator: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 12. Condenser: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 13. Compressors: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 14. Others: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 15. Electric Vehicle Heat Pump Systems Market Share (%) - by Vehicle Type (2023 and 2031)
- Figure 16. Passenger Vehicle: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 17. Commercial Vehicle: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)
- Figure 18. North America Electric Vehicle Heat Pump Systems Market, by Key Country - Revenue (2023) (US\$ Million)
- Figure 19. North America: Electric Vehicle Heat Pump Systems Market Breakdown, by Key Countries, 2023 and 2031 (%)

Figure 20. United States: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 21. Canada: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 22. Mexico: Electric Vehicle Heat Pump Systems Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 23. Company Positioning & Concentration

I would like to order

Product name: North America Electric Vehicle Heat Pump Systems Market Forecast to 2031 - Regional Analysis - by Propulsion Type (BEV, HEV, and PHEV), Component (Evaporator, Condenser, Compressors, and Others), and Vehicle Type (Passenger Vehicle and Commercial Vehicle)

Product link: <https://marketpublishers.com/r/N7277EF7DAF7EN.html>

Price: US\$ 3,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N7277EF7DAF7EN.html>