

Global EV Air Conditioning Controller Market Growth 2026-2032

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Abstracts

The global EV Air Conditioning Controller market size is predicted to grow from US\$ 1040 million in 2025 to US\$ 2885 million in 2032; it is expected to grow at a CAGR of 15.8% from 2026 to 2032.

EV air conditioning controller is an electronic control unit used to manage the operation of the vehicle's cooling, heating, and heat pump systems. By coordinating with the compressor, fan, valves, and sensors, it achieves comfort control and optimizes overall vehicle energy consumption, making it a core component of the new energy vehicle thermal management system.

Upstream components mainly include MCUs, power semiconductors, sensors, actuators, and automotive-grade electronic components; downstream applications cover pure electric and hybrid passenger vehicles, new energy commercial vehicles, and some high-end intelligent cockpit and vehicle thermal management systems.

EV air conditioning controller is \$42 per unit, with annual sales of approximately 25.32 million units and a global annual production capacity of approximately 28 million units. The industry profit margin is 15%.

Global Market Future Development Trends:

First, the widespread adoption of heat pumps is driving the increasing complexity of controllers. As the penetration rate of heat pump air conditioning in new energy vehicles continues to rise, air conditioning controllers are evolving from single temperature control to multi-loop, multi-condition collaborative control. This requires simultaneous management of cooling, heating, and battery and electric drive heat exchange, placing

higher demands on control precision and algorithm capabilities.

Second, energy consumption optimization is becoming a core value. Against the backdrop of range anxiety, air conditioning energy consumption has a significant impact on the overall vehicle range, driving a shift in control strategies from 'passive response' to 'prediction and optimization.' Intelligent air conditioning control based on environmental perception, user habits, and navigation information is gradually being implemented, significantly enhancing the value of controller software.

Third, centralized architecture and regional market expansion are occurring simultaneously. The overall vehicle electronic and electrical architecture is evolving towards domain control and centralization. Air conditioning control functions are gradually being integrated into the thermal management domain controller, showing a clear trend towards hardware standardization and software customization. Meanwhile, China and Europe are becoming core growth markets driven by the increasing penetration rate of new energy vehicles, resulting in a global market characterized by 'technology upgrade-driven, software value enhancement, and significant regional differentiation.'

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

This Insight Report provides a comprehensive analysis of the global EV Air Conditioning Controller landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on EV Air Conditioning Controller portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global EV Air Conditioning Controller market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV Air Conditioning Controller 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 EV Air Conditioning Controller.

This report presents a comprehensive overview, market shares, and growth opportunities of EV Air Conditioning Controller market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Manual

Electronically Controlled Pneumatic Adjustment

Segmentation by System Architecture:

Independent Air Conditioning Controller

Centralized Thermal Management Controller

Segmentation by Controlled Objects:

Compressor Control Type

Heat Pump System Control Type

Integrated Vehicle Thermal Management Control Type

Segmentation by Application:

Passenger Car

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 analysing the company's coverage, product portfolio, its market penetration.

Microchip Technology

Denso

Hanon Systems

NXP Semiconductors

Sensata Technologies

Johnson Controls

Schneider Electric

Siemens

ACDelco

Emerson Electric

LG Electronics

Belimo

Azbil

MacMic Science Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global EV Air Conditioning Controller market?

What factors are driving EV Air Conditioning Controller market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do EV Air Conditioning Controller market opportunities vary by end market size?

How does EV Air Conditioning Controller break out by Type, by Application?

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