

Global Electric Rooftop AC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Rooftop AC market size is expected to reach \$ 1519 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, the global Electric Rooftop AC market is estimated at approximately 411 k units, primarily driven by demand from bus HVAC systems, recreational vehicles (RVs), and special-purpose vehicles. The average global selling price is around US\$2,121 per unit, depending on system configuration (standard, electric, or heat pump-integrated systems). Gross margin is estimated at approximately 28?33%, with higher profitability in electrified and smart HVAC systems. The average manufacturing cost is around US\$1,530 per unit. Total production capacity globally is estimated at approximately 540 k units, reflecting supply from Tier 1 HVAC suppliers and OEM-integrated demand. An Electric Rooftop Air Conditioner is a roof-mounted HVAC system powered by an electric compressor, operating on vehicle high-voltage electrical architectures (typically 48V, 400V, or 800V). It provides cooling, heating, and air circulation independently of the internal combustion engine. It is widely used in electric buses, electric RVs, and special-purpose electric vehicles. Key features include high integration, independent power supply, energy efficiency, and strong compatibility with electrified vehicle platforms.

From an industry perspective, electric rooftop air conditioners are rapidly penetrating the market alongside the accelerating electrification of global vehicle fleets, particularly in the new energy bus segment where they are becoming standard equipment. Compared with conventional engine-driven systems, electric HVAC units are better suited for high-voltage platforms, offering improved energy efficiency and reduced mechanical losses. As a result, demand continues to grow in urban buses, electric logistics vehicles, and RV applications.

Looking forward, the market is expected to evolve toward high-voltage platforms, heat pump adoption, and intelligent thermal management. The widespread adoption of 800V architectures will drive higher efficiency and faster system response. In parallel, heat pump technology is gradually replacing traditional cooling approaches, improving performance in low-temperature environments. Meanwhile, smart control functions such as zoned climate management, remote monitoring, and AI-based energy optimization are becoming key features in high-end electric HVAC systems.

This report studies the global Electric Rooftop AC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Rooftop AC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electric Rooftop AC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Rooftop AC total production and demand, 2021-2032, (K Units)

Global Electric Rooftop AC total production value, 2021-2032, (USD Million)

Global Electric Rooftop AC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Rooftop AC consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Rooftop AC domestic production, consumption, key domestic manufacturers and share

Global Electric Rooftop AC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Rooftop AC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Rooftop AC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Rooftop AC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Denso Corporation, Valeo, MAHLE GmbH, Sanden Holdings Corporation, Hanon Systems, Webasto Group, Eberspächer Group, Thermo King (Trane Technologies), Carrier Global Corporation, Bergstrom Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electric Rooftop AC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electric Rooftop AC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Rooftop AC Market, Segmentation by Type:

Integrated Rooftop Unit

Split Rooftop HVAC System

Heat Pump Rooftop System

Global Electric Rooftop AC Market, Segmentation by Function:

Standard Comfort Electric Air Conditioner

High-Efficiency Energy-Saving Electric Air Conditioner

Global Electric Rooftop AC Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

Denso Corporation

Valeo

MAHLE GmbH

Sanden Holdings Corporation

Hanon Systems

Webasto Group

Eberspacher Group

Thermo King (Trane Technologies)

Carrier Global Corporation

Bergstrom Inc.

Modine Manufacturing Company

Shanghai SONGZ Automobile Air Conditioning Co., Ltd.

Aotecar New Energy Technology Co., Ltd.

Zhejiang Yinlun Machinery Co., Ltd.

Zhengzhou Jingyida Automobile Air Conditioning Co., Ltd.

King Long United Automotive Industry Co., Ltd.

Yutong Bus Co., Ltd.

Guangzhou Jingyi Automobile Air Conditioning Co., Ltd.

Key Questions Answered:

1. How big is the global Electric Rooftop AC market?
2. What is the demand of the global Electric Rooftop AC market?
3. What is the year over year growth of the global Electric Rooftop AC market?
4. What is the production and production value of the global Electric Rooftop AC market?
5. Who are the key producers in the global Electric Rooftop AC market?
6. What are the growth factors driving the market demand?

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