

Global Bus HVAC Components Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bus HVAC Components market size is expected to reach \$ 5452 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

Bus HVAC components are the core functional parts that constitute the heating, ventilation, and air conditioning system in buses and coaches. The bus air conditioning system mainly consists of the condenser, evaporator, compressor, magnetic clutch, alternator, fresh air device, blower, fan, return air grille, control panel, pipeline system and electric-controlled system. Unlike passenger car systems, bus HVAC components must withstand higher thermal loads, longer operating hours, and more demanding maintenance cycles. Key components include compressors (swashplate or scroll type), condensers (tube-and-fin or multi-flow), evaporators, expansion valves, blowers, and electronic control units. From a value chain perspective, upstream includes raw material suppliers (aluminum, copper, steel, refrigerants), electronic component suppliers (sensors, controllers, motors); midstream involves component manufacturing, assembly, testing, and quality certification; downstream demand spans bus OEMs (public transit buses, coaches, school buses), aftermarket replacement, and bus fleet operators. In 2025, the average selling price is approximately US\$850 per unit (component-level weighted average), global sales volume is about 4,676.5k units, and gross margins generally range from 18% to 30%, driven by raw material costs (copper, aluminum), manufacturing precision requirements, and application-specific durability standards.

The bus HVAC components market is experiencing steady growth driven by global urbanization and the expansion of public transportation networks. As cities worldwide invest in upgrading their bus fleets to meet stricter emissions standards and improve passenger comfort, the demand for advanced, energy-efficient HVAC components continues to rise. The integration of smart technologies and IoT in HVAC systems is

enabling real-time monitoring and optimization of HVAC performance, leading to improved energy efficiency and passenger comfort.

Another key trend is the rapid shift toward electric-powered HVAC systems in line with the global transition to electric buses. Unlike conventional engine-powered systems that rely on the internal combustion engine to drive the compressor, electric buses require electrically powered HVAC components. This transition has driven innovation in high-voltage electric compressors, battery thermal management systems, and energy-efficient blowers. Manufacturers are developing specialized components that maintain cooling and heating performance while minimizing battery consumption—a critical factor for extending electric bus range.

This report studies the global Bus HVAC Components production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bus HVAC Components 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 Bus HVAC Components that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bus HVAC Components total production and demand, 2021-2032, (K Units)

Global Bus HVAC Components total production value, 2021-2032, (USD Million)

Global Bus HVAC Components production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Bus HVAC Components consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Bus HVAC Components domestic production, consumption, key domestic manufacturers and share

Global Bus HVAC Components production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Bus HVAC Components production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Bus HVAC Components production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Bus HVAC Components 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 SA, MAHLE GmbH, Thermo King Corporation, Eberspacher Group, Spheros GmbH, WABCO (ZF Group), Guchen Industry, Air International Thermal Systems, TACO Air International (Tata JV), 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 Bus HVAC Components 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 Bus HVAC Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bus HVAC Components Market, Segmentation by Type:

Engine-Powered HVAC Component

Electric-Powered HVAC Component

Global Bus HVAC Components Market, Segmentation by Refrigerant Type:

R134a System Components

R1234yf System Components

CO₂ (R744) System Components

Global Bus HVAC Components Market, Segmentation by Price Tier (Component-Level):

Economy / Standard Components

Premium / High-Efficiency Components

EV-Specialized Components

Global Bus HVAC Components Market, Segmentation by Application:

OEM (Original Equipment Manufacturer)

Aftermarket

Companies Profiled:

Denso Corporation

Valeo SA

MAHLE GmbH

Thermo King Corporation

Eberspacher Group

Spheros GmbH

WABCO (ZF Group)

Guchen Industry

Air International Thermal Systems

TACO Air International (Tata JV)

Subros Limited

Sanden Corporation

Konvekta AG

Grayson Thermal Systems

Sutrak USA

Carrier (Coachair)

Sidwal Refrigeration Industries

Japanese Climate Systems (JCS)

American Cooling Technology

Aotecar

Key Questions Answered:

1. How big is the global Bus HVAC Components market?
2. What is the demand of the global Bus HVAC Components market?

3. What is the year over year growth of the global Bus HVAC Components market?
4. What is the production and production value of the global Bus HVAC Components market?
5. Who are the key producers in the global Bus HVAC Components market?
6. What are the growth factors driving the market demand?

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