

Global Bus HVAC Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bus HVAC Components market size was valued at US\$ 4090 million in 2025 and is forecast to a readjusted size of US\$ 5452 million by 2032 with a CAGR of 4.3% during review period.

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 is a detailed and comprehensive analysis for global Bus HVAC Components market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bus HVAC Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Bus HVAC Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Bus HVAC Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Bus HVAC Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bus HVAC Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bus HVAC Components market based on the following parameters - company overview, sales quantity, revenue, 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, Eberspächer 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.

Market Segmentation

Bus HVAC Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Engine-Powered HVAC Component

Electric-Powered HVAC Component

Market segment by Refrigerant Type

R134a System Components

R1234yf System Components

CO₂ (R744) System Components

Market segment by Price Tier (Component-Level)

Economy / Standard Components

Premium / High-Efficiency Components

EV-Specialized Components

Market segment by Application

OEM (Original Equipment Manufacturer)

Aftermarket

Major players covered

Denso Corporation

Valeo SA

MAHLE GmbH

Thermo King Corporation

Eberspächer 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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bus HVAC Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bus HVAC Components, with price, sales quantity, revenue, and global market share of Bus HVAC Components from 2021 to 2026.

Chapter 3, the Bus HVAC Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bus HVAC Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Bus HVAC Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bus HVAC Components.

Chapter 14 and 15, to describe Bus HVAC Components sales channel, distributors, customers, research findings and conclusion.

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