

# Global Air Source Heat Pump Components Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GAFAABC7E74BEN.html>

Date: May 2026

Pages: 176

Price: US\$ 4,480.00 (Single User License)

ID: GAFAABC7E74BEN

## Abstracts

The global Air Source Heat Pump Components market size is expected to reach \$ 95353 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032).

Air source heat pump components are the key parts used inside air source heat pump units to enable air-source heat absorption, refrigerant compression, throttling regulation, heat exchange, air delivery, water circulation, operational control, and safety protection. Their core task is to stably transfer low-grade heat from outdoor air to space heating, domestic hot water, cooling, or automotive thermal management systems, while maintaining a balance among efficiency, noise, reliability, and cost under complex operating conditions such as low temperature, high humidity, defrosting, part-load operation, and the transition to low-carbon refrigerants. This industry forms a core heat pump supply chain composed of compressors, electronic expansion valves, four-way reversing valves, fans, heat exchangers, circulator pumps, motors, drives, controllers, filter driers, accumulators, and system modules. Compressors are responsible for refrigerant pressurization and circulation drive, making them central to efficiency and low-temperature capability. Electronic expansion valves precisely control refrigerant flow through stepper motors. Fans and heat exchangers determine air-side heat exchange efficiency and noise performance. Circulator pumps ensure water-side flow and stable terminal heating. Electronic control and drive systems are responsible for variable-speed regulation, superheat control, defrost coordination, and system protection. Typical customers include heat pump OEMs, air-conditioning manufacturers, commercial HVAC equipment manufacturers, automotive thermal management system suppliers, engineering integrators, and aftermarket service channels. Common delivery forms include standard components, customized compressor platforms, fan and pump assemblies, plate heat exchangers, valve control packages, automotive heat pump

modules, and technical selection support.

Air source heat pump components form a core component supply chain built around heat pump system efficiency, low-temperature adaptability, low noise, low-carbon refrigerants, and system reliability. Compared with traditional air-conditioning components, air source heat pump components must not only support cooling conditions, but also operate stably over long periods under heating, defrosting, hot water, part-load, and low-ambient-temperature conditions. As a result, the coordination value among components has increased significantly. Compressors are responsible for refrigerant pressurization and circulation, making them critical to low-temperature heating capability, leaving water temperature, COP, and overall unit service life. Electronic expansion valves precisely regulate refrigerant flow through stepper motors, allowing the system to maintain proper superheat during bidirectional heating and cooling operation. Fans and heat exchangers determine air-side heat transfer intensity, resistance, and noise, while circulator pumps determine water-side flow stability. Drives and controllers integrate compressors, valves, fans, and pumps into variable-speed control and system protection logic.

From the perspective of the industrial chain, air source heat pump components are positioned upstream of heat pump OEMs and between materials, motors, casting, precision machining, electronic control, copper and aluminum processing, brazed heat exchangers, and refrigerant systems. They are a key link determining whether the large-scale expansion of the heat pump industry can be realized. Major production regions currently include Japan, Germany, Denmark, Sweden, the United States, South Korea, mainland China, and Taiwan. Japanese companies have long-standing expertise in compressor structures, low noise, and high reliability. German and Nordic companies have advantages in fans, pumps, heat exchangers, and commercial HVAC components. U.S. companies maintain influence in compressors and thermal management system chains. South Korean companies are expanding rapidly in home appliance compressors and automotive thermal management electric compressors, while mainland China and Taiwan have formed large-scale supply capabilities in electronic expansion valves, four-way valves, compressors, fans, and motor components. Demand comes from residential heating replacement, as well as commercial buildings, heat pump water heating, district heating, low-temperature industrial heat utilization, and electric vehicle thermal management. As European energy-efficiency requirements and refrigerant regulations become stricter, compatibility with low-GWP refrigerants, R290, R744, and R32, high-efficiency variable-speed operation, and intelligent control will continue to drive component upgrades.

Future growth in the air source heat pump components market will come not only from higher heat pump unit sales, but also from rising component value per unit and a higher share of complex systems. On the one hand, low-temperature air source heat pumps, air source heat pump water heaters, and commercial heat pumps require higher compression ratios, wider operating envelopes, more stable electronic expansion valve control, quieter and more efficient EC fans, more corrosion-resistant and higher-efficiency heat exchangers, and smarter pumps and controllers. On the other hand, electric vehicle heat pump systems further modularize compressors, heat exchangers, valve groups, pumps, and control software, making automotive thermal management a new growth scenario for traditional HVAC component companies. BITZER clearly states that heat pump technology is an important factor in achieving low-carbon targets, and that components need to be compatible with multiple refrigerants, different temperature levels, high energy efficiency, and intelligent connectivity. In the future, the industry will show joint growth in high-efficiency compressors, electronic valves, EC fans, plate heat exchangers, electronic circulator pumps, and automotive heat pump modules. Component companies with system adaptation capabilities, low-GWP refrigerant experience, and global OEM supply capabilities are more likely to secure long-term orders.

This report studies the global Air Source Heat Pump Components production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Air Source Heat Pump Components total production and demand, 2021-2032, (Units)

Global Air Source Heat Pump Components total production value, 2021-2032, (USD Million)

Global Air Source Heat Pump Components production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Air Source Heat Pump Components consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Air Source Heat Pump Components domestic production, consumption, key domestic manufacturers and share

Global Air Source Heat Pump Components production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Air Source Heat Pump Components production by Component Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Air Source Heat Pump Components production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Air Source Heat Pump 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 Daikin Industries, Mitsubishi Electric, LG Electronics, Panasonic Holdings, Carrier Global, Danfoss, Midea Group, Gree Electric Appliances, Sanden, Copeland, 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 Air Source Heat Pump Components market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Component 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 Air Source Heat Pump Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Air Source Heat Pump Components Market, Segmentation by Component Type:

Evaporator

Compressor

Condenser

Heat Exchanger

Expansion Valve

Other

#### Global Air Source Heat Pump Components Market, Segmentation by Control Precision:

Fixed-Speed Electronic Control

Variable-Speed Regulation

Mechanical Passive

Other

#### Global Air Source Heat Pump Components Market, Segmentation by Delivery Form:

Single Part

Functional Component

System Module

Other

Global Air Source Heat Pump Components Market, Segmentation by Application:

Residential Space Heating and Cooling

Commercial Building HVAC

Industrial and Agricultural Heating

Automotive Thermal Management

Other

Companies Profiled:

Daikin Industries

Mitsubishi Electric

LG Electronics

Panasonic Holdings

Carrier Global

Danfoss

Midea Group

Gree Electric Appliances

Sanden

Copeland

BITZER

Zhejiang Sanhua Intelligent Controls

ebm-papst Group

ZIEHL-ABEGG

SWEP

Alfa Laval

CAREL Industries

Grundfos

Wilo Group

Kelvion

Modine

Saginomiya Seisakusho

Fujikoki

Samsung Electronics

Hanon Systems

Shanghai Highly (Group)

Zhejiang DunAn Artificial Environment

Nidec

SUNONWEALTH Electric Machine Industry

## Delta Electronics

### Key Questions Answered:

1. How big is the global Air Source Heat Pump Components market?
2. What is the demand of the global Air Source Heat Pump Components market?
3. What is the year over year growth of the global Air Source Heat Pump Components market?
4. What is the production and production value of the global Air Source Heat Pump Components market?
5. Who are the key producers in the global Air Source Heat Pump Components market?
6. What are the growth factors driving the market demand?

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