

Global Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC market size was valued at US\$ 1534 million in 2025 and is forecast to a readjusted size of US\$ 1988 million by 2032 with a CAGR of 3.6% during review period.

Variable-frequency Drive (VFD) for HVAC specialized AC motor drive used to control the speed of fans, pumps, blowers, compressors, and air-handling equipment in heating, ventilation, and air-conditioning systems. HVAC VFDs adjust motor frequency and voltage to match real-time load demand, enabling significant energy savings (20–60%), improved indoor environmental comfort, reduced mechanical wear, and lower operating noise. They incorporate HVAC-specific PID control, multi-pump sequencing, bypass functions, fire mode, building automation communication protocols, and protective features tailored for commercial buildings, industrial facilities, and large public infrastructure.

The HVAC VFD industry chain begins with upstream suppliers of IGBT/SiC power modules, controllers, sensors, inductors, cooling systems, housings, and PCBs; moves into midstream manufacturers who design HVAC-specific PID algorithms, multi-pump sequencing logic, bypass modules, chiller/compressor integration, and assemble and test complete VFD units; and ends with downstream HVAC OEMs, building automation integrators, mechanical contractors, real-estate developers, industrial facilities, data centers, transportation hubs, and municipal energy-retrofit programs that deploy HVAC VFDs to improve energy efficiency, reduce operating costs, and enhance building environmental performance.

Current projects include expansions of HVAC-focused VFD manufacturing facilities in

China and Southeast Asia, development of high-efficiency SiC-based compressor VFDs in Japan and Europe, modernization of U.S. factories to support data-center cooling demand, district-cooling retrofit initiatives in the Middle East, large-scale government energy-saving programs for public buildings, and joint development projects between HVAC OEMs and VFD manufacturers aimed at integrating IoT diagnostics and predictive maintenance features, with major launches expected between 2025 and 2028.

2025 Global Market sales Volume: 2.6 million units, Average Global Market Price: 566 USD per unit, Market Average Gross Profit Margin: 23%.

This report is a detailed and comprehensive analysis for global Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC
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 Variable-frequency Drive for HVAC 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 Bosch Rexroth, ABB, Siemens, Schneider Electric, Yaskawa Electric, Delta Electronics, Fuji Electric, Honeywell, WEG, Inovance, etc.

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

Market Segmentation

Variable-frequency Drive for HVAC 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

Low-power (500 kW)

Market segment by Controlled Equipment Type

Fan

Pump

Compressor

Cooling Tower

Others

Market segment by Installation Type

Wall-mounted

Panel

Market segment by Application

Air Handling Units (AHUs)

Fan Coil Units (FCUs)

Others

Major players covered

Bosch Rexroth

ABB

Siemens

Schneider Electric

Yaskawa Electric

Delta Electronics

Fuji Electric

Honeywell

WEG

Inovance

NOVOSENSE

INVT

Hitachi

Lenze

Sumitomo Heavy Industries

Danfoss

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 Variable-frequency Drive for HVAC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable-frequency Drive for HVAC, with price, sales quantity, revenue, and global market share of Variable-frequency Drive for HVAC from 2021 to 2026.

Chapter 3, the Variable-frequency Drive for HVAC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC 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 Variable-frequency Drive for HVAC.

Chapter 14 and 15, to describe Variable-frequency Drive for HVAC sales channel, distributors, customers, research findings and conclusion.

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