

Global Variable Frequency Drives (VFD) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Variable Frequency Drives (VFD) market size was valued at USD 15400 million in 2023 and is forecast to a readjusted size of USD 18660 million by 2030 with a CAGR of 2.8% during review period.

Variable frequency Drive (VFD) is an electric power control device which controls AC motor by changing the working power frequency of the motor by using frequency conversion technology and microelectronic technology. The frequency converter is mainly composed of rectifier (AC to DC), filter, inverter (DC to AC), brake unit, drive unit, detection unit, micro-processing unit, etc.

Variable frequency drive comes with numerous benefits; such as dynamic torque control, adjustable speed and energy-saving. These factors are crucial for power generation, auto motive as well as oil and gas industry. These elements are expected to impact the market in positive manner. Due to ever increasing penetration of connected devices across the various sectors including residential sectors, commercial and industrial sectors, demand for variable frequency drive (VFD) is consistently growing. Furthermore, another considerable factor for market is growth in investment percentage for infrastructure development. Since investments are pouring in, demand for HVAC systems is as high as never before. HVAC systems are used to energy efficiency of buildings, due to which expected power savings are achieved. Hence, these demands for the systems are also to drive the market further. Throughout world industrialization is making its way faster than ever before. Specially, in developing countries rapid industrialization is underway which ultimately results in growth of industrial and manufacturing sectors, which further are propelling the demand for variable frequency

drive.

The Global Info Research report includes an overview of the development of the Variable Frequency Drives (VFD) industry chain, the market status of Pumps (Low Voltage (0-690V), Medium Voltage (690V-3000V)), Fans (Low Voltage (0-690V), Medium Voltage (690V-3000V)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Variable Frequency Drives (VFD).

Regionally, the report analyzes the Variable Frequency Drives (VFD) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Variable Frequency Drives (VFD) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Variable Frequency Drives (VFD) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Variable Frequency Drives (VFD) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Low Voltage (0-690V), Medium Voltage (690V-3000V)).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Variable Frequency Drives (VFD) market.

Regional Analysis: The report involves examining the Variable Frequency Drives (VFD) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future

projections and forecasts for the Variable Frequency Drives (VFD) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Variable Frequency Drives (VFD):

Company Analysis: Report covers individual Variable Frequency Drives (VFD) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Variable Frequency Drives (VFD). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Pumps, Fans).

Technology Analysis: Report covers specific technologies relevant to Variable Frequency Drives (VFD). It assesses the current state, advancements, and potential future developments in Variable Frequency Drives (VFD) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Variable Frequency Drives (VFD) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Variable Frequency Drives (VFD) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Low Voltage (0-690V)

Medium Voltage (690V-3000V)

High Voltage (3 kV-10 kV)

Market segment by Application

Pumps

Fans

Compressors

Conveyors

Elevators

Extruders

Others

Major players covered

ABB

Siemens AG

Schneider Electric Co.

Emerson Electric Co.

Yaskawa Electric

Mitsubishi Electric Corporation

Hitachi Ltd.

Danfoss

Toshiba International Corporation

Fuji Electric

Rockwell Automation

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 Drives (VFD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable Frequency Drives (VFD), with price, sales, revenue and global market share of Variable Frequency Drives (VFD) from 2019 to 2024.

Chapter 3, the Variable Frequency Drives (VFD) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Variable Frequency Drives (VFD) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Variable Frequency Drives (VFD) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Drives (VFD).

Chapter 14 and 15, to describe Variable Frequency Drives (VFD) sales channel, distributors, customers, research findings and conclusion.

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