

# Global Frequency Conversion Centrifugal Chiller Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GFA2E704D191EN.html>

Date: October 2025

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: GFA2E704D191EN

## Abstracts

According to our (Global Info Research) latest study, the global Frequency Conversion Centrifugal Chiller market size was valued at US\$ 2701 million in 2024 and is forecast to a readjusted size of USD 3418 million by 2031 with a CAGR of 3.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Frequency Conversion Centrifugal Chiller, also known as a Variable-Speed Drive (VSD) Centrifugal Chiller, is an advanced type of chiller used in HVAC (heating, ventilation, and air conditioning) systems. It features a frequency conversion mechanism that allows the chiller's compressor motor to adjust its speed to match the cooling load requirements, which significantly improves energy efficiency.

The global market for Frequency Conversion Centrifugal Chillers is growing as demand rises for energy-efficient HVAC systems across commercial, industrial, and residential applications. Frequency conversion, or variable-speed drive (VSD) technology, allows these chillers to adjust motor speeds to match cooling load requirements, which optimizes energy consumption and improves overall system performance.

Market Opportunities:

Growing Demand for Energy-Efficient HVAC Systems: With increased energy costs and environmental concerns, there is a strong demand for efficient HVAC systems that

reduce operational costs and carbon footprint. Frequency conversion chillers adjust their energy usage to meet load demand, offering significant energy savings.

**Expansion of Data Centers and IT Infrastructure:** Data centers, which require continuous cooling, are a key application area for frequency conversion chillers. As global data center construction rises, so does the demand for efficient and scalable cooling solutions.

**Market Constraints:**

**Price Fluctuations in Key Components:** Frequency conversion chillers use advanced components, like inverters and variable-speed drives, which are subject to price fluctuations based on global supply chain conditions. Rising costs in these components can impact production costs and profitability.

the global market for frequency conversion centrifugal chillers is growing rapidly, driven by a focus on energy efficiency, the expansion of data centers, and regulatory demands. Although high initial costs and technical requirements are challenges, the potential for energy savings, environmental benefits, and advancements in smart cooling technology support strong market growth.

This report is a detailed and comprehensive analysis for global Frequency Conversion Centrifugal Chiller 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 Frequency Conversion Centrifugal Chiller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Frequency Conversion Centrifugal Chiller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Frequency Conversion Centrifugal Chiller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Frequency Conversion Centrifugal Chiller market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Frequency Conversion Centrifugal Chiller
- 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 Frequency Conversion Centrifugal Chiller 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 Hitachi, Daikin, Climaveneta, Johnson Controls, McQuay, Midea, Leading Electric & Machinery, Kuenling Air, Shanghai Hanbell Precise Machinery, DunAnac, etc.

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

## Market Segmentation

Frequency Conversion Centrifugal Chiller market is split by Type and by Application. For the period 2020-2031, 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

Air Cooling

Water Cooling

## Market segment by Application

Commercial

Industrial

## Major players covered

Hitachi

Daikin

Climaveneta

Johnson Controls

McQuay

Midea

Leading Electric & Machinery

Kuenling Air

Shanghai Hanbell Precise Machinery

DunAnac

JIUDING REFRIGERATION

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 Frequency Conversion Centrifugal Chiller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Frequency Conversion Centrifugal Chiller, with price, sales quantity, revenue, and global market share of Frequency Conversion Centrifugal Chiller from 2020 to 2025.

Chapter 3, the Frequency Conversion Centrifugal Chiller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Frequency Conversion Centrifugal Chiller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Frequency Conversion Centrifugal Chiller market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Frequency Conversion Centrifugal Chiller.

Chapter 14 and 15, to describe Frequency Conversion Centrifugal Chiller sales channel, distributors, customers, research findings and conclusion.

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