

Global Centrifugal Refrigerant Compressor 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 Centrifugal Refrigerant Compressor market size was valued at US\$ 1132 million in 2025 and is forecast to a readjusted size of US\$ 1336 million by 2032 with a CAGR of 2.5% during review period.

A centrifugal refrigerant compressor is a turbomachinery-type compressor that uses high-speed impellers to raise the pressure of refrigerant vapor by converting kinetic energy into static pressure. It is mainly used in centrifugal chillers, large commercial HVAC systems, data center cooling, industrial process cooling, district cooling, hospitals, airports, electronics manufacturing, and food and beverage facilities. Typical components include impellers, diffusers, volutes or return channels, high-speed motors, variable-frequency drives, inlet guide vanes, bearing systems, seals, and control modules. Product forms include oil-lubricated single-stage, two-stage and multi-stage centrifugal compressors, as well as oil-free magnetic-bearing or aerodynamic-bearing variable-speed compressors. These compressors are usually tightly integrated into chiller packages and are designed for refrigerants such as R134a, R513A, R1234ze, R515B and R1233zd(E), with major production and demand concentrated in the U.S., China, Europe, Japan and South Korea.

In 2025, global centrifugal refrigerant compressor production reached approximately 12,000?17,000 units, covering compressors supplied for new centrifugal chillers, oil-free magnetic-bearing or aerodynamic-bearing compressor modules, and selected replacement or retrofit units for existing chiller plants, excluding complete centrifugal chiller packages and industrial process gas centrifugal compressors. The mainstream FOB price was approximately USD 45,000?110,000 per unit, while large multi-stage, magnetic-bearing, dual-compressor or high-capacity configurations could exceed this

range.

The global centrifugal refrigerant compressor market is moving from conventional oil-lubricated high-speed machinery toward oil-free bearings, variable-speed drives, low-GWP refrigerant compatibility and intelligent controls. Demand is being supported by data centers, semiconductor facilities, pharmaceutical plants, hospitals, airports, commercial complexes and district cooling projects, where continuous cooling, energy efficiency and reliability are critical. Regulatory pressure is also reshaping procurement: U.S. HFC transition rules restrict high-GWP refrigerants in several refrigeration and air-conditioning applications from 2025, while the EU F-gas framework continues to reduce HFC availability and encourage low-GWP alternatives.

The main constraints are refrigerant-transition engineering, higher upfront costs for magnetic-bearing or aerodynamic-bearing systems, and longer certification and validation cycles across regions. Even so, centrifugal refrigerant compressors remain attractive because of their part-load efficiency, low maintenance needs, low noise, compact high-capacity design and compatibility with advanced chiller architectures. This is particularly important for data centers, healthcare, pharmaceutical, electronics and industrial cooling applications operating for long annual hours.

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

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

Global Centrifugal Refrigerant Compressor market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Centrifugal Refrigerant Compressor market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Centrifugal Refrigerant Compressor

- 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 Centrifugal Refrigerant Compressor 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 Danfoss A/S, Johnson Controls International plc, Carrier Global Corporation, Trane Technologies plc, Daikin Industries, Ltd., Mitsubishi Heavy Industries Thermal Systems, Ltd., EBARA Corporation, LG Electronics Inc., Mitsubishi Electric Hydronics and IT Cooling Systems S.p.A., Geoclima S.r.l., etc.

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

Market Segmentation

Centrifugal Refrigerant Compressor 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

Single Stage

Two Stage

Multi Stage

Market segment by Cooling Capacity

Below 150 Refrigeration Tons

150 to 500 Refrigeration Tons

500 to 1,500 Refrigeration Tons

Above 1,500 Refrigeration Tons

Market segment by Refrigerant Type

HFC Refrigerants

HFO Refrigerants

HCFO Refrigerants

Others

Market segment by Bearing and Lubrication Technology

Oil Lubricated (Oil-Filled)

Magnetic Bearing Oil-Free

Others

Market segment by Application

Commercial Buildings

Data Centers and Telecom Facilities

Industrial Manufacturing

Other

Major players covered

Danfoss A/S

Johnson Controls International plc

Carrier Global Corporation

Trane Technologies plc

Daikin Industries, Ltd.

Mitsubishi Heavy Industries Thermal Systems, Ltd.

EBARA Corporation

LG Electronics Inc.

Mitsubishi Electric Hydronics and IT Cooling Systems S.p.A.

Geoclima S.r.l.

ENGIE Refrigeration GmbH

Dunham-Bush Holding Bhd.

Gree Electric Appliances, Inc. of Zhuhai

Midea Group Co., Ltd.

Haier Smart Home Co., Ltd.

Nanjing TICA Climate Solutions Co., Ltd.

Nanjing CIGU Technology Corp., Ltd.

Hanbell Precise Machinery Co., Ltd.

TECO Electric and Machinery Co., Ltd.

Blue Star Limited

Kirloskar Chillers Private Limited

Voltas Limited

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 Centrifugal Refrigerant Compressor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Centrifugal Refrigerant Compressor, with price, sales quantity, revenue, and global market share of Centrifugal Refrigerant Compressor from 2021 to 2026.

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

Chapter 4, the Centrifugal Refrigerant Compressor 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 Centrifugal Refrigerant Compressor 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 Centrifugal Refrigerant Compressor.

Chapter 14 and 15, to describe Centrifugal Refrigerant Compressor sales channel, distributors, customers, research findings and conclusion.

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