

Global Centrifugal Refrigerant Compressor Market Growth 2026-2032

<https://marketpublishers.com/r/G1565B98B677EN.html>

Date: July 2026

Pages: 163

Price: US\$ 3,660.00 (Single User License)

ID: G1565B98B677EN

Abstracts

The global Centrifugal Refrigerant Compressor market size is predicted to grow from US\$ 1076 million in 2025 to US\$ 1282 million in 2032; it is expected to grow at a CAGR of 2.7% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Centrifugal Refrigerant Compressor Industry Forecast" looks at past sales and reviews total world Centrifugal Refrigerant Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected Centrifugal Refrigerant Compressor sales for 2026 through 2032. With Centrifugal Refrigerant Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Centrifugal Refrigerant Compressor industry.

This Insight Report provides a comprehensive analysis of the global Centrifugal Refrigerant Compressor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Centrifugal Refrigerant Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Centrifugal Refrigerant Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Centrifugal Refrigerant Compressor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Centrifugal Refrigerant Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of Centrifugal Refrigerant Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single Stage

Two Stage

Multi Stage

Segmentation by Cooling Capacity:

Below 150 Refrigeration Tons

150 to 500 Refrigeration Tons

500 to 1,500 Refrigeration Tons

Above 1,500 Refrigeration Tons

Segmentation by Refrigerant Type:

HFC Refrigerants

HFO Refrigerants

HCFO Refrigerants

Others

Segmentation by Bearing and Lubrication Technology:

Oil Lubricated (Oil-Filled)

Magnetic Bearing Oil-Free

Others

Segmentation by Application:

Commercial Buildings

Data Centers and Telecom Facilities

Industrial Manufacturing

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Centrifugal Refrigerant Compressor market?

What factors are driving Centrifugal Refrigerant Compressor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Centrifugal Refrigerant Compressor market opportunities vary by end market size?

How does Centrifugal Refrigerant Compressor break out by Type, by Application?

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