

Global Oil-Free CO₂ Compressor Market Growth 2026-2032

<https://marketpublishers.com/r/G60C0F06B2EBEN.html>

Date: July 2026

Pages: 147

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

ID: G60C0F06B2EBEN

Abstracts

The global Oil-Free CO₂ Compressor market size is predicted to grow from US\$ 147 million in 2025 to US\$ 212 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

An Oil-Free CO₂ Compressor is a dedicated gas compression system used for carbon dioxide boosting, transfer, recovery, circulation, filling, or process gas supply while preventing lubricating oil from contaminating the CO₂-contacting compression path. Its core purpose is to maintain gas purity, ensure safety in food and beverage applications, improve refrigeration system reliability, and support clean industrial CO₂ recovery processes. The product is typically designed as a dry-running oil-free piston compressor, diaphragm compressor, oil-free screw compressor, oil-free scroll compressor, or gas-tight sealed compressor, and is commonly supplied as a standalone unit, booster module, CO₂ recovery compression unit, dry ice production auxiliary system, skid-mounted package, or integrated package with CO₂ capture and purification equipment. Major applications include food and beverage carbonation, brewery CO₂ recovery, dry ice production, food cold chain, supercritical CO₂ extraction, laboratory and pharmaceutical gas supply, R744 natural refrigerant systems, greenhouse CO₂ enrichment, and small-to-medium carbon capture and utilization scenarios. Major producing regions include China, the United States, Germany, Italy, Switzerland, and Japan.

In 2025, global Oil-Free CO₂ Compressor production reached approximately 1,850-1,950 units, with dry-running oil-free piston compressors, diaphragm compressors, oil-free booster modules, and small-to-medium CO₂ recovery compression units representing the mainstream product types. The average FOB price was approximately USD 80,000-85,000 per unit; equipment for food and beverage

carbonation, laboratory use, and small industrial boosting was priced below the average, while systems for dry ice production, brewery CO₂ recovery, high-pressure R744 refrigeration, and continuous-duty skid-mounted packages were priced significantly above the average.

The Oil-Free CO₂ Compressor market is a specialized equipment segment positioned at the intersection of food and beverage processing, dry ice production, CO₂ recovery and utilization, and natural refrigerant applications. Demand growth is mainly driven by beverage carbonation, CO₂ recovery in breweries and fermentation industries, food cold chain expansion, dry ice supply, replacement of high-GWP refrigerants, and small-to-medium carbon utilization projects. Compared with conventional CO₂ compressors, oil-free models place greater emphasis on gas cleanliness, low contamination risk, and continuous-duty reliability, making them more suitable for food-grade CO₂, pharmaceutical and laboratory gas supply, supercritical extraction, and high-cleanliness recovery applications. China, North America, and Europe are the main demand regions, with China and Southeast Asia supported by food and beverage growth, cold chain logistics, and localized industrial gas supply, while Europe and North America place greater emphasis on CO₂ recovery, low-GWP refrigerant replacement, energy efficiency, and process safety.

The main market challenges include relatively fragmented application scenarios and the fact that some large-scale CCUS and industrial CO₂ compression projects use large process gas compressors, centrifugal compressors, or oil-lubricated systems, which do not fully fall within the small-to-medium oil-free CO₂ compressor scope. In addition, CO₂ operation under high-pressure and low-temperature conditions places higher requirements on materials, sealing, condensation control, and system design, while customers are sensitive to energy consumption, maintenance intervals, and lifecycle cost. From 2026 to 2032, demand is expected to expand from traditional food and beverage and dry ice production to CO₂ recovery in breweries and fermentation plants, R744 heat pump and refrigeration systems, supercritical extraction, greenhouse enrichment, and distributed carbon utilization systems. The market is expected to maintain medium-speed growth, but both market size and growth rate will remain below those of oil-free hydrogen compressors.

LP Information, Inc. (LPI) ' newest research report, the "Oil-Free CO₂ Compressor Industry Forecast" looks at past sales and reviews total world Oil-Free CO₂ Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected Oil-Free CO₂ Compressor sales for 2026 through 2032. With Oil-Free CO₂ Compressor sales broken down by region, market sector and sub-sector, this

report provides a detailed analysis in US\$ millions of the world Oil-Free CO₂ Compressor industry.

This Insight Report provides a comprehensive analysis of the global Oil-Free CO₂ 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 Oil-Free CO₂ Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oil-Free CO₂ Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oil-Free CO₂ 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 Oil-Free CO₂ Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of Oil-Free CO₂ Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dry Running Reciprocating Compressor

Diaphragm Compressor

Oil-Free Screw Compressor

Others

Segmentation by Discharge Pressure:

20 bar to below 80 bar

80 bar to below 200 bar

Below 20 bar

200 bar and above

Segmentation by Purity Grade:

Food Grade CO?

Industrial Grade CO?

High Purity CO?

Segmentation by Cooling Method:

Air Cooled

Water Cooled

Hybrid Cooled

Segmentation by Application:

Food and Beverage

Chemical and Industrial Gas

Refrigeration and Cold Chain

Others

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.

Atlas Copco AB

Sauer Compressors Group

NEUMAN & ESSER GROUP

Mehrer Compression GmbH

SIAD Macchine Impianti S.p.A.

Burckhardt Compression AG

Ingersoll Rand Inc.

PDC Machines, LLC

RIX Industries

Dover Corporation

IDEX Corporation

Honeywell International Inc.

Fluitron, Inc.

KAJI Technology Corporation

KwangShin Machine Industry Co., Ltd.

Kirloskar Pneumatic Company Limited

Indian Compressors Limited

Hangzhou Hangyang Compressor Co., Ltd.

Anqing Bailian Oil Free Compressor Co., Ltd.

Xuzhou Huayan Gas Equipment Co., Ltd.

BROTIE Technology Company Limited

UNIGY (Nanjing) Compressor Co., Ltd.

Glorious Sinoding Gas Equipment (Wuhu) Co., Ltd.

FENDY S&T Group Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oil-Free CO₂ Compressor market?

What factors are driving Oil-Free CO₂ Compressor market growth, globally and by region?

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

How do Oil-Free CO₂ Compressor market opportunities vary by end market size?

How does Oil-Free CO₂ Compressor break out by Type, by Application?

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