

Carbon Dioxide Compressor Market 2025-2029: Exploring Growth Trends and Recent Updates

The Business Research Company's Carbon Dioxide Compressor Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, December 12, 2025

/EINPresswire.com/ -- [The carbon dioxide compressor industry](#) has

witnessed substantial growth recently, driven by various factors across different applications. With increasing environmental concerns and technological advancements, this market is set to continue expanding steadily. Below is a detailed examination of the market size, influencing factors, key players, and regional dynamics shaping the future of this sector.



The Business Research Company's Carbon Dioxide Compressor Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034"

The Business Research Company

The Business
Research Company

The Business Research Company



Current Valuation and Projected Growth of [the Carbon Dioxide Compressor Market](#)

The carbon dioxide compressor market has experienced significant expansion and is expected to grow from \$2.48 billion in 2024 to \$2.68 billion in 2025, representing a compound annual growth rate (CAGR) of 8.0%. This growth during the past years has been fueled by the rising use of CO2 in refrigeration and air conditioning systems, stricter environmental regulations, increased applications of CO2 in enhanced oil recovery, a stronger push for energy-

efficient cooling technologies, and an overall heightened focus on cutting greenhouse gas emissions.

Download a free sample of the carbon dioxide compressor market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=30220&type=smp>

Looking ahead, the market is forecasted to reach \$3.60 billion by 2029, with a slightly moderated CAGR of 7.7%. The anticipated expansion is expected to be driven by growing demand for carbon

capture technologies, broader adoption of renewable energy, ongoing development in natural gas processing, supportive government policies promoting low-emission technologies, and an increased emphasis on energy-efficient refrigeration solutions. Key trends shaping the market will include improvements in compressor design and efficiency, integration of smart automation, innovations in low-global warming potential (GWP) refrigerants, advancements in variable speed drives for energy savings, and enhanced digital monitoring and control systems.

Understanding Carbon Dioxide Compressors and Their Role

Carbon dioxide compressors are mechanical units engineered to increase the pressure of CO₂ gas for various industrial, storage, and transportation purposes. By compressing CO₂ from a low-pressure state to a higher-pressure state, these devices ensure effective handling and utilization in sectors such as refrigeration, beverage carbonation, chemical processing, and supercritical CO₂ extraction. Maintaining CO₂'s purity, stability, and flow is essential in these applications, and compressors come in multiple configurations—reciprocating, rotary, or centrifugal—depending on the operational requirements for capacity and pressure.

View the full carbon dioxide compressor market report:

<https://www.thebusinessresearchcompany.com/report/global-carbon-dioxide-compressor-market-report>

Rising Consumption of Carbonated Beverages as a Market Growth Catalyst

One of the prominent factors driving market expansion is the increasing consumption of carbonated beverages worldwide. These drinks, which contain dissolved carbon dioxide for a sparkling effect, include soda, sparkling water, and soft drinks that are widely enjoyed for their refreshing qualities. The surge in urbanization exposes more consumers to modern lifestyles, boosting the preference for convenient and flavorful beverages and thereby intensifying demand in retail and foodservice sectors. Carbon dioxide compressors play a crucial role here by delivering high-purity CO₂ efficiently, ensuring consistent carbonation that preserves the beverage's quality, taste, and shelf life. For example, in July 2024, the International Bottled Water Association reported that US per capita consumption of carbonated soft drinks was 34.4 gallons in 2023, underscoring steady demand levels that support the need for carbonation equipment.

Additional Factors Supporting Carbon Dioxide Compressor Market Expansion

Besides beverage-related demand, the market is also propelled by growing adoption of CO₂ in refrigeration and air conditioning systems, driven by environmental regulations that encourage the use of low-emission refrigerants. Moreover, increasing application of CO₂ in enhanced oil recovery techniques and the demand for energy-efficient cooling solutions further stimulate the market. These factors collectively strengthen the market outlook as industries strive to meet sustainability goals and regulatory standards.

Regional Market Dominance and Growth Outlook

North America held [the largest share of the carbon dioxide compressor market in 2024](#), thanks to its advanced industrial base and early adoption of environmentally friendly technologies.

Meanwhile, the Asia-Pacific region is forecasted to exhibit the fastest growth over the coming years, supported by rapid industrialization, expanding energy sectors, and increasing investments in clean technology solutions. The report covers other significant regions including Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a comprehensive global perspective on market trends and opportunities.

Browse Through More Reports Similar to the Global Carbon Dioxide Compressor Market 2025,
By The Business Research Company

Compressors Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/compressors-global-market-report>

Industrial Air Compressor Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/industrial-air-compressor-global-market-report>

Hydrogen Compressor Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/hydrogen-compressor-global-market-report>

Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

Follow Us On:

LinkedIn: <https://in.linkedin.com/company/the-business-research-company>

Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/874470720>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something

we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.