

Global CO₂ Backup System Market Growth 2026-2032

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Abstracts

The global CO₂ Backup System market size is predicted to grow from US\$ 23.40 million in 2025 to US\$ 29.82 million in 2032; it is expected to grow at a CAGR of 3.6% from 2026 to 2032.

A CO₂ backup system provides emergency cooling for critical equipment, especially ultra-low temperature (ULT) freezers, by injecting liquid carbon dioxide (CO₂) during power outages or system failures to prevent vital samples (like biological specimens) from thawing, ensuring continuity until primary power is restored. It's an independent system with its own battery, featuring a controller and a CO₂ tank, designed to automatically maintain safe temperatures within a set range (often -50°C to -70°C).

The global production of CO₂ backup systems is projected to reach 9,000 units by 2025, with an average price of US\$2,660 per unit. Gross profit margins typically range from 25% to 45%.

CO₂ backup systems are designed to ensure a continuous and stable supply of carbon dioxide when primary gas sources or control systems fail, with typical applications in cell culture incubators, life science laboratories, pharmaceutical production lines, and selected food and industrial processes. The upstream supply chain mainly includes industrial or medical-grade CO₂ gas, high-pressure cylinders or liquid CO₂ tanks, pressure regulators, flow control valves, piping and sealing components, as well as sensing and alarm devices. The upstream value lies in gas purity, supply stability, and safety compliance. Downstream applications represent the core demand. Life science laboratories and cell culture users rely heavily on stable CO₂ concentrations to maintain culture conditions and therefore require fast response, automatic switchover, and uninterrupted gas delivery. Biopharmaceutical and vaccine manufacturers place greater emphasis on validation readiness, data logging, and compatibility with existing culture and production systems. Hospitals and research institutes prioritize safety, ease of

maintenance, and reduced human intervention, while food and industrial users focus more on cost efficiency and long-term operational stability. Overall, downstream demand is driven by the need to avoid experiment failure and production downtime, resulting in relatively low price sensitivity.

In terms of development trends, CO₂ backup systems are moving toward higher levels of automation, intelligence, and integration, with increasing adoption of real-time monitoring, remote alarms, and data traceability to improve reliability and reduce manual operations. Key growth drivers include the rapid expansion of cell and gene therapy, continuous investment in biopharmaceutical R&D, rising intolerance for experimental and production interruptions, and stricter laboratory safety and compliance requirements. Constraints include relatively high initial investment, regulatory and safety requirements associated with gas storage and use, limited awareness of backup system necessity among smaller laboratories, and regional fluctuations in CO₂ supply.

LP Information, Inc. (LPI) ' newest research report, the "CO₂ Backup System Industry Forecast" looks at past sales and reviews total world CO₂ Backup System sales in 2025, providing a comprehensive analysis by region and market sector of projected CO₂ Backup System sales for 2026 through 2032. With CO₂ Backup System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO₂ Backup System industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO₂ Backup System 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 CO₂ Backup System.

This report presents a comprehensive overview, market shares, and growth opportunities of CO₂ Backup System market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

High-Pressure CO₂ Backup System

Low-Pressure CO₂ Backup System

Supercritical CO₂ Backup System

Gaseous CO₂ Backup System

Mixed-Phase CO₂ Backup System

Segmentation by Structure:

Vertical Fixed Storage Tank

Horizontal Fixed Storage Tank

Mobile Storage Tank

Segmentation by Switching Method:

Manual Switching

Semi-Automatic Switching

Fully Automatic Switching

Segmentation by Boosting Method:

Self-Pressurizing Type

External Boosting Type

Gravity Conveying Type

Vaporization Conveying Type

Segmentation by Application:

Laboratory

Medical

Semiconductor

Fire Protection

Cold Chain

Industrial

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.

Thermo Fisher Scientific

Eppendorf

PHC Corporation

Haier Biomedical

BINDER

Helmer Scientific

Esco Lifesciences

Stirling Ultracold

ARCTIKO

Meling Biomedical

BIOBASE

So-Low Environmental Equipment

Across International

Hampshire Controls

Antech Scientific

Key Questions Addressed in this Report

What is the 10-year outlook for the global CO? Backup System market?

What factors are driving CO? Backup System market growth, globally and by region?

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

How do CO? Backup System market opportunities vary by end market size?

How does CO? Backup System break out by Type, by Application?

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