

Global CO2 and LN2 Backup System Market Growth 2026-2032

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Abstracts

The global CO2 and LN2 Backup System market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

CO2 and LN2 backup systems are backup kits that provide access to the freezer. As the name implies, they rely on liquefied gas to keep samples at cryogenic temperatures. The backup module controls the addition of coolant to the cryochamber when the temperature rises above a set threshold. The main difference between the two systems is the lowest temperature they can reach and the length of time the liquefied gas remains stable in the tank. Liquid CO2 can maintain temperatures between -55°C and -70°C for months, while liquid nitrogen can drop temperatures to -85 °C but will be consumed more quickly over time, so it needs to be monitored.

United States market for CO2 and LN2 Backup System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for CO2 and LN2 Backup System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for CO2 and LN2 Backup System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key CO2 and LN2 Backup System players cover Haier Biomedical, Thermo Scientific, Eppendorf, Telstar, ANTECH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "CO2 and LN2 Backup System Industry Forecast" looks at past sales and reviews total world CO2 and LN2 Backup System sales in 2025, providing a comprehensive analysis by region and market sector of projected CO2 and LN2 Backup System sales for 2026 through 2032. With CO2 and LN2 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 and LN2 Backup System industry.

This Insight Report provides a comprehensive analysis of the global CO2 and LN2 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 and LN2 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 and LN2 Backup System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO2 and LN2 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 and LN2 Backup System.

This report presents a comprehensive overview, market shares, and growth opportunities of CO2 and LN2 Backup System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LN2 Backup System

CO2 Backup System

Segmentation by Application:

Laboratories

Hospitals

Research Institutes

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.

Haier Biomedical

Thermo Scientific

Eppendorf

Telstar

ANTECH

Arctiko

BioGenet

Angelantoni Life Science (ALS)

NuAire

Hampshire Controls

So-Low Environmental

PHC

Helmer Scientific

Froilabo

Esco

Key Questions Addressed in this Report

What is the 10-year outlook for the global CO₂ and LN₂ Backup System market?

What factors are driving CO₂ and LN₂ Backup System market growth, globally and by region?

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

How do CO₂ and LN₂ Backup System market opportunities vary by end market size?

How does CO₂ and LN₂ Backup System break out by Type, by Application?

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