

Global Liquid Nitrogen Cryo Tank Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Nitrogen Cryo Tank market size is expected to reach \$ 524 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Liquid nitrogen cryogenic storage tanks are cryogenic containers specifically designed for storing and transporting liquid nitrogen. They can safely preserve liquid nitrogen at extremely low temperatures and minimize evaporation loss, providing thermal insulation for biological samples, vaccines, laboratory processes, and industrial cryogenic processes. These tanks play a crucial role in biological sample preservation, pharmaceutical cold chains, and scientific research experiments. The upstream of the liquid nitrogen cryogenic storage tank industry chain includes stainless steel tank bodies, vacuum insulation layers, safety relief valves, electronic monitoring systems, and structural components; the midstream includes complete unit assembly, airtightness testing, calibration, and quality inspection; downstream applications cover biological sample storage facilities, pharmaceutical companies, laboratories, industrial gas suppliers, and cryogenic transportation services, while also providing maintenance, monitoring, and compliance support services. In 2025, the global production of liquid nitrogen cryogenic storage tanks was approximately 30,000 units, with a global average market price of approximately US\$12,000 per unit. The gross profit margin of major companies in the industry ranged from 25% to 45%. The global production capacity of liquid nitrogen cryogenic storage tanks in 2025 was approximately 40,000 units.

The liquid nitrogen cryo tank market is growing due to increased demand for biomedical storage, vaccine preservation, and industrial low-temperature processes. Rising research activities, pharmaceutical cold chain expansion, and industrial gas applications drive steady demand. Compared with traditional storage methods, modern cryo tanks offer enhanced thermal insulation, lower evaporation rates, and improved safety

features. Manufacturers are focusing on vacuum insulation improvements, electronic monitoring, and modular designs to enhance usability and reliability. Overall, the market is expected to maintain steady growth supported by biomedical research expansion, pharmaceutical cold chain development, and industrial applications.

This report studies the global Liquid Nitrogen Cryo Tank production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Nitrogen Cryo Tank and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid Nitrogen Cryo Tank that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Nitrogen Cryo Tank total production and demand, 2021-2032, (K Units)

Global Liquid Nitrogen Cryo Tank total production value, 2021-2032, (USD Million)

Global Liquid Nitrogen Cryo Tank production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Nitrogen Cryo Tank consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Nitrogen Cryo Tank domestic production, consumption, key domestic manufacturers and share

Global Liquid Nitrogen Cryo Tank production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Nitrogen Cryo Tank production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Nitrogen Cryo Tank production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Nitrogen Cryo Tank market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Chart, Taylor-Wharton, Labfreez, BIOBASE, Cole-Parmer, Cryofab, Henan Tianchi Instrument & Equipment, Chengdu Aro Technology, Beijing Junfang Keyi Technology, Cryobio, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Liquid Nitrogen Cryo Tank market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Liquid Nitrogen Cryo Tank Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Nitrogen Cryo Tank Market, Segmentation by Type:

Below 100 L

100 L-200 L

Above 200L

Global Liquid Nitrogen Cryo Tank Market, Segmentation by Structure Type:

Vacuum-insulated Type

Mechanical-cooled Type

Cryogenic Tank Type

Global Liquid Nitrogen Cryo Tank Market, Segmentation by Pressure Level:

Low-pressure Liquid Nitrogen Tank

High-pressure Liquid Nitrogen Tank

Global Liquid Nitrogen Cryo Tank Market, Segmentation by Application:

Animal Husbandry

Semiconductor

Medical

Food Industrial

Chemical Industrial

Other

Companies Profiled:

Chart

Taylor-Wharton

Labfreez

BIOBASE

Cole-Parmer

Cryofab

Henan Tianchi Instrument & Equipment

Chengdu Aro Technology

Beijing Junfang Keyi Technology

Cryobio

Henan Boss Liquid Nitrogen Container

Haier Biomedical

MVE

Key Questions Answered:

1. How big is the global Liquid Nitrogen Cryo Tank market?
2. What is the demand of the global Liquid Nitrogen Cryo Tank market?
3. What is the year over year growth of the global Liquid Nitrogen Cryo Tank market?
4. What is the production and production value of the global Liquid Nitrogen Cryo Tank market?
5. Who are the key producers in the global Liquid Nitrogen Cryo Tank market?
6. What are the growth factors driving the market demand?

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