

Global -150°C Ultra-low Temperature Freezers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global -150°C Ultra-low Temperature Freezers market size was valued at US\$ 139 million in 2025 and is forecast to a readjusted size of US\$ 226 million by 2032 with a CAGR of 7.0% during review period.

A -150°C ultra-low temperature freezer is a powered freezer designed to maintain long-term storage around -150°C commonly below the ~-130°C threshold associated with ice recrystallization/glass-transition-related risks so that biological samples can be preserved with minimal molecular motion and degradation. Typical products specify a temperature control range around -125°C to -150°C (model-dependent) and emphasize chamber stability/uniformity.

Upstream supply mainly includes: refrigeration architecture and components (multi-stage cascade / auto-cascade systems, compressors, heat exchangers, controls), refrigerants, high-performance insulation (e.g., polyurethane foam, vacuum insulation panels), and electrical/control subsystems (temperature sensors, alarms, data logging/monitoring, backup power interfaces). Many -150°C platforms are engineered as LN₂ alternatives, while some designs are LN₂-backup ready to enhance resilience.

Downstream demand is driven by applications that require cryogenic-range, electrically powered storage without routine LN₂ handling: biobanks, cell & gene therapy / regenerative medicine, IVF and reproductive medicine, blood and plasma component storage, and research institutes storing cells, tissues, DNA and other temperature-sensitive specimens. Manufacturers often position these freezers as safer, simpler

?plug-in? cryogenic storage options versus LN? vapor systems.

In 2025, global sales of -150°C ultra-low temperature freezer reached approximately 6,688 units, with an average global market price of around US\$ 20.2 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

With the expansion of cell & gene therapy, cell banks/strain banks, and research biorepositories, buyers are becoming more sensitive to ?stable, long-term deep-cold preservation.? They care not only about the lowest setpoint, but also about temperature excursions and how handling cycles may affect cell viability as well as protein/nucleic-acid integrity, including the warming window during sample retrieval and the risk associated with partial thaw/refreeze events. Mechanically-refrigerated deep-cold freezers are often positioned as an engineered middle ground between standard ULT freezers and liquid-nitrogen systems, offering a deep-cold range without relying on LN? as the primary cooling medium.

In purchasing decisions, compliance and operational risk are gaining weight. LN? systems are proven, but they require stronger procedural controls around personnel safety, supply logistics, and contamination management. Some mechanical cryogenic freezers emphasize reduced routine maintenance and lower cross-contamination risk, while strengthening traceability via remote alarms, data logging, and access control. On the product side, the market is also moving toward more redundancy and fault-tolerance?such as dual cooling architectures and optional LN? backup?to meet continuity requirements for critical repositories. Finally, energy and sustainability considerations increasingly influence solution selection, accelerating adoption of more efficient insulation and operating strategies.

This report is a detailed and comprehensive analysis for global -150°C Ultra-low Temperature Freezers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global -150°C Ultra-low Temperature Freezers market size and forecasts, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global -150? Ultra-low Temperature Freezers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global -150? Ultra-low Temperature Freezers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global -150? Ultra-low Temperature Freezers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for -150? Ultra-low Temperature Freezers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global -150? Ultra-low Temperature Freezers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Haier Biomedical, Aucma, Zhongke Meiling Cryogenics, PHCbi, Arctiko, Operon, Coolingway, Beijing Dexinyongjia, etc.

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

Market Segmentation

-150? Ultra-low Temperature Freezers market is split by Type and by Application. For

the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Mechanical Cryogenic Freezer

- LN? Vapor-Phase Cryogenic Storage System

Market segment by Insulation Technology

- VIP (Vacuum Insulation Panels)

- PUF (Polyurethane Foam)

Market segment by Cabinet Configuration

- Chest Freezer

- Upright Freezer

Market segment by Application

- Corporate Laboratories

- Hospitals and Blood Center

- Universities and Research Institutions

- Other

Major players covered

Haier Biomedical

Aucma

Zhongke Meiling Cryogenics

PHCbi

Arctiko

Operon

Coolingway

Beijing Dexinyongjia

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe -150? Ultra-low Temperature Freezers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of -150? Ultra-low Temperature Freezers, with price, sales quantity, revenue, and global market share of -150? Ultra-low Temperature Freezers from 2021 to 2026.

Chapter 3, the -150? Ultra-low Temperature Freezers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the -150? Ultra-low Temperature Freezers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and -150? Ultra-low Temperature Freezers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of -150? Ultra-low Temperature Freezers.

Chapter 14 and 15, to describe -150? Ultra-low Temperature Freezers sales channel, distributors, customers, research findings and conclusion.

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