

Global Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer market size was valued at US\$ 98 million in 2025 and is forecast to a readjusted size of US\$ 135 million by 2032 with a CAGR of 4.7% during review period.

The Liquid Nitrogen Tunnel Quick Freezer is a piece of high-efficiency, continuous food freezing equipment. It utilizes ultra-low-temperature liquid nitrogen (-196°C) as the refrigerant, instantly enveloping food products in an ultra-low-temperature environment as they pass through a continuous conveyor tunnel.

Upstream components primarily include liquid nitrogen supplies, stainless steel sheets, insulation materials, conveyor belts, nozzles, fans, motors, gear reducers, temperature sensors, PLC control systems, valves, vacuum-insulated piping, and food-grade seals. Liquid nitrogen supply determines operating costs and the customer service radius; stainless steel structures, insulation layers, and tunnel sealing performance affect cooling efficiency; nozzle and airflow duct designs determine freezing uniformity and liquid nitrogen consumption; and conveyor belts, fans, and control systems impact production capacity, hygiene/cleanliness, and operational stability. The midstream sector encompasses the manufacturing of liquid nitrogen quick-freezing equipment, system integration, installation and commissioning, and process validation. The downstream market primarily serves sectors requiring quick-freezing capabilities, such as general food processing, seafood, meat and poultry, ready-to-eat/pre-prepared meals, baked goods, fruits and vegetables, and central kitchens.

In 2025, global sales volume for tunnel-type liquid nitrogen quick-freezers reached approximately 2,500 units; the average selling price from leading manufacturers was

around \$38,000 per unit, with major industry players achieving gross margins of approximately 25%-40%.

This report is a detailed and comprehensive analysis for global Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer

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 Liquid Nitrogen Tunnel Quick Freezer 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 Linde, Air Products, Messer, Air Liquide, Nippon Sanso Matheson, DSI Dantech, Dohmeyer, Shenzhen Dejieli Cryogenic Technology, Wilstier Industrial Technology (Shanghai), SPEEDCRYO, etc.

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

Market Segmentation

Liquid Nitrogen Tunnel Quick Freezer 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

Direct Spray Type

Cold Nitrogen Circulation Type

Other

Market segment by Conveyor Structure

Mesh Belt Conveyor Type

Slat/Plate Belt Conveyor Type

Other

Market segment by Application

Aquatic Products

Meat & Poultry Products

Ready-to-Cook Meals

Pastries & Baked Goods

Fruits & Vegetables

Others

Major players covered

Linde

Air Products

Messer

Air Liquide

Nippon Sanso Matheson

DSI Dantech

Dohmeyer

Shenzhen Dejieli Cryogenic Technology

Wilstier Industrial Technology (Shanghai)

SPEEDCRYO

Jiangsu ASC Freezing Technology

Kewell Cryogenics

Chengdu Cryostech Equipment

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 Liquid Nitrogen Tunnel Quick Freezer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Nitrogen Tunnel Quick Freezer, with price, sales quantity, revenue, and global market share of Liquid Nitrogen Tunnel Quick Freezer from 2021 to 2026.

Chapter 3, the Liquid Nitrogen Tunnel Quick Freezer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer 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 Liquid Nitrogen Tunnel Quick Freezer.

Chapter 14 and 15, to describe Liquid Nitrogen Tunnel Quick Freezer sales channel, distributors, customers, research findings and conclusion.

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