

Liquid Oxygen Devices Market Outlook 2025-2034: Market Share, and Growth Analysis By Tank Type (Vertical Storage Tanks, Horizontal Storage Tanks), By Distribution Channel (Direct Sales, Indirect Sales), By End-User

<https://marketpublishers.com/r/LA22CE7B45F0EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: LA22CE7B45F0EN

Abstracts

The Liquid Oxygen Devices Market is valued at USD 8 billion in 2025 and is projected to grow at a CAGR of 7.1% to reach USD 14.8 billion by 2034. The liquid oxygen devices market includes medical and industrial equipment designed to store, transport, and administer oxygen in its liquid state. In healthcare, these devices are critical for patients requiring long-term oxygen therapy, particularly those with respiratory disorders such as COPD, pulmonary fibrosis, or severe asthma. The market encompasses liquid oxygen tanks, portable liquid oxygen units, filling stations, and regulators. Unlike compressed oxygen cylinders, liquid oxygen systems offer greater storage capacity and mobility benefits, making them ideal for home healthcare and ambulatory use. In industrial settings, liquid oxygen devices are used in metal processing, combustion enhancement, and aerospace propulsion. The liquid oxygen devices market experienced steady growth, especially in the home healthcare and elderly care segments. The rising incidence of chronic respiratory diseases and increasing preference for portable oxygen therapy at home supported market expansion. Manufacturers introduced lighter, ergonomically designed portable units with enhanced refill mechanisms and longer duration between refills. Digital monitoring systems and oxygen purity sensors became more common in advanced devices, improving safety and user confidence. Hospitals and emergency services also scaled up liquid oxygen storage and distribution infrastructure to ensure preparedness in post-pandemic respiratory care scenarios. The market is expected to expand further with increased adoption of smart oxygen delivery systems integrated with telemedicine platforms. AI-driven oxygen usage monitoring and cloud-based patient data tracking will allow clinicians to tailor oxygen therapy in real

time. Miniaturized cryogenic tanks with enhanced insulation will make portable systems more accessible for remote and underserved regions. Aging populations in North America, Europe, and parts of Asia will sustain demand for home-use liquid oxygen systems. Meanwhile, sustainability concerns will prompt R&D into reusable and recyclable components within liquid oxygen device designs.

Key Insights Liquid Oxygen Devices Market

Portable liquid oxygen systems with extended autonomy are improving patient mobility and independence.

Smart oxygen devices with built-in sensors are enabling real-time monitoring of flow rates and oxygen purity.

Home healthcare adoption is increasing due to the aging population and preference for outpatient respiratory care.

Integration with telehealth and cloud platforms is supporting remote diagnostics and therapy adjustments.

Medical device makers are focusing on lightweight materials and ergonomic designs for elderly-friendly use.

Growing burden of chronic respiratory diseases is increasing demand for long-term oxygen therapy solutions.

Home-based care trends are accelerating the need for compact, user-friendly oxygen delivery systems.

Technological advances in cryogenic storage and flow control are improving device reliability and convenience.

Healthcare infrastructure upgrades and public health programs are expanding access to oxygen therapy in emerging economies.

High initial cost and maintenance requirements limit adoption among low-income and rural populations.

Regulatory approvals and compliance with medical device standards can delay

market entry and innovation.

Liquid Oxygen Devices Market Segmentation

By Tank Type

Vertical Storage Tanks

Horizontal Storage Tanks

By Distribution Channel

Direct Sales

Indirect Sales

By End-User

Hospitals

Outpatient Facilities

Home Care

Other End-Users

Key Companies Analysed

Air Liquide S.A.

Linde plc

Teijin Limited

NTK Oxygen Electronics Co. Ltd.

Chart Industries Inc.

Invacare Corporation

Cryoquip LLC

ErgoMed Inc.

CAIRE Inc.

Taylor-Wharton International LLC

DeVilbiss Healthcare

VRV S.p.A.

Eleet Cryogenics Inc.

FIBA Technologies Inc.

Inova Labs

OxyGo LLC

Cryofab Inc.

O2 CONCEPTS LLC

PCI Gases

HVM Medical Inc.

Oxygen Plus Inc.

Oxygen Solutions Inc.

Besco Medical Co. Ltd.

Nidek Medical

INOXCVA

Liquid Oxygen Devices Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Liquid Oxygen Devices Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Liquid Oxygen Devices market data and outlook to 2034

United States

Canada

Mexico

Europe — Liquid Oxygen Devices market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Liquid Oxygen Devices market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Liquid Oxygen Devices market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Liquid Oxygen Devices market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Liquid Oxygen Devices value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Liquid Oxygen Devices industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth

potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Liquid Oxygen Devices Market Report

Global Liquid Oxygen Devices market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Liquid Oxygen Devices trade, costs, and supply chains

Liquid Oxygen Devices market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Liquid Oxygen Devices market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Liquid Oxygen Devices market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Liquid Oxygen Devices supply chain analysis

Liquid Oxygen Devices trade analysis, Liquid Oxygen Devices market price

analysis, and Liquid Oxygen Devices supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Liquid Oxygen Devices market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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