

Global Small Liquid Nitrogen Generator Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Small Liquid Nitrogen Generator market size will reach 6.77 Million USD in 2025 and is projected to reach 8.98 Million USD by 2032, with a CAGR of 4.11% (2025-2032). Notably, the China Small Liquid Nitrogen Generator market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A small liquid nitrogen generator is a compact device designed to produce liquid nitrogen on-site for applications requiring low volumes of this cryogenic liquid. Using air as its raw material, the generator employs technologies like cryogenic distillation or pressure swing adsorption (PSA) to extract nitrogen from the atmosphere and cool it to its liquid state at -196°C (-321°F). These generators are widely used in laboratories, medical facilities, and industrial settings for applications such as cryopreservation, sample storage, food freezing, and equipment cooling. The compact design eliminates the need for frequent liquid nitrogen deliveries, offering convenience, cost savings, and consistent availability while ensuring safety and ease of operation in small-scale environments.

The major global manufacturers of Small Liquid Nitrogen Generator include Peak Scientific, Ulvac Cryogenics, Noblegen, F-DGSi, MMR Technologies, Imtek Cryogenics, Cryomech, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a

substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Small Liquid Nitrogen Generator. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Small Liquid Nitrogen Generator market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Small Liquid Nitrogen Generator market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Small Liquid Nitrogen Generator industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Small Liquid Nitrogen Generator Include:

Peak Scientific

Ulvac Cryogenics

Noblegen

F-DGSi

MMR Technologies

Imtek Cryogenics

Cryomech

Small Liquid Nitrogen Generator Product Segment Include:

Cascade Refrigeration

Gifford-McMahon Refrigeration

Small Liquid Nitrogen Generator Product Application Include:

Medical

Research

Others

Chapter Scope

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