

# Global Automated Parallel Nitrogen Evaporators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automated Parallel Nitrogen Evaporators market size is expected to reach \$ 105 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of Automated Parallel Nitrogen Evaporators reached approximately 5,200–5,800 units, with an average market price of about USD 12,000–13,500 per unit, an annual production capacity of roughly 5,500–6,100 units, and an industry-average gross margin of approximately 28%.

Automated Parallel Nitrogen Evaporators are multi-position laboratory sample preparation systems designed to concentrate or dry multiple liquid samples simultaneously by combining controlled heating with nitrogen or inert-gas blowdown. A typical system integrates a heating module, water-bath or dry-block platform, sample rack or microplate carrier, gas manifold, needles or nozzles, programmable pressure and flow control, fume management, endpoint detection or timed operation, and a touchscreen or software-based control interface. By directing a gentle and controlled nitrogen stream over the liquid surface, the system reduces the solvent partial pressure above the sample and accelerates evaporation while helping protect analytes from oxidation and excessive thermal exposure. This research scope focuses on automated, semi-automated, and high-throughput parallel nitrogen evaporation and concentration equipment used in environmental testing, food safety, pesticide and veterinary residue analysis, pharmaceutical quality control, clinical research, forensic toxicology, PFAS workflows, and LC/MS or GC/MS sample preparation. Key performance parameters include sample capacity, temperature uniformity, nitrogen flow precision, endpoint detection, liquid-level tracking, independent channel control, sample-vessel compatibility, fume handling, solvent compatibility, reproducibility, and integration

capability with upstream extraction or downstream analytical workflows.

Based on our research, Automated Parallel Nitrogen Evaporators should be treated as a narrow laboratory sample preparation equipment segment rather than a broad evaporation equipment market. The product's core value is not merely solvent removal, but the conversion of manual blowdown and concentration steps into a programmable, repeatable, and partially unattended workflow. In many analytical laboratories, concentration remains a bottleneck between extraction and instrumental analysis, especially when large batches of samples must be prepared for LC/MS, GC/MS, pesticide residue analysis, food safety testing, environmental monitoring, forensic toxicology, and PFAS workflows. Automated nitrogen blowdown systems improve throughput, reduce operator dependency, lower the risk of overdrying, and increase batch-to-batch reproducibility. However, because these instruments are still mid-value sample preparation systems rather than large analytical platforms, the market remains a modest-sized but steadily growing niche.

From a supply perspective, the global competitive structure is layered. European and North American brands such as Biotage, Organomation, Labconco, and FMS hold strong positions in premium applications and international laboratory networks, supported by established product families and application know-how. Chinese suppliers such as RayKol, Beijing LabTech, Beijing Titan Instruments, and Beijing Polytech have developed increasingly competitive automated parallel concentrator lines, with strong relevance to environmental, food, agricultural residue, and third-party testing laboratories. At the same time, China and India have a large base of smaller manufacturers offering lower-priced water-bath or dry-block nitrogen concentrators. These long-tail suppliers expand unit volume and intensify price competition, but their automation depth, endpoint control, reproducibility, and global brand recognition remain uneven.

Demand growth is mainly driven by routine analytical laboratories that need to process larger sample batches with fewer manual steps. Environmental testing, food safety, pesticide and veterinary residue analysis, PFAS and emerging contaminant workflows, pharmaceutical QC, clinical research, and contract testing laboratories are the most relevant demand sources. As analytical methods move toward lower detection limits and higher sample throughput, sample preparation consistency becomes increasingly important. Automated parallel nitrogen blowdown systems are well positioned in small- to medium-volume concentration workflows because they offer a practical balance of cost, simplicity, method compatibility, and throughput. Future demand will be shaped not only by new laboratory capacity, but also by automation retrofits, rising labor costs,

regulatory-driven testing complexity, and the need for reproducible pre-analytical workflows.

Technology development is moving from basic timed blowdown toward smarter, safer, and more integrated systems. Key product upgrades include optical or liquid-level endpoint detection, programmable gas pressure gradients, independent channel control, liquid-level-following needles, dry heating or dual-sided heating, improved fume handling, microplate compatibility, and compatibility with upstream SPE or liquid handling platforms. Premium suppliers are likely to defend pricing through application-specific workflows and method support, while mid-tier suppliers can gain share by offering reliable automation at lower cost. The market is therefore expected to evolve from standalone hardware competition toward a broader competition based on workflow integration, application validation, consumable compatibility, software control, and after-sales service.

The outlook for 2026–2032 is steady rather than explosive. Vacuum parallel evaporators, centrifugal concentrators, online SPE-concentration systems, and integrated laboratory automation platforms will continue to act as substitutes in selected workflows, especially where solvent recovery, heat-sensitive compounds, or complete walkaway automation is required. Nevertheless, nitrogen blowdown remains difficult to replace in many routine analytical settings because it is familiar, cost-effective, method-compatible, and suitable for batch processing. For market reporting, the distinction between the core formal manufacturer list and the extended longlist is important: the core list captures the main competitive and revenue structure, while the extended list reflects the breadth of regional suppliers, low-cost entrants, and potential OEM/ODM sources that shape pricing pressure and channel dynamics.

This report studies the global Automated Parallel Nitrogen Evaporators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automated Parallel Nitrogen Evaporators 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 Automated Parallel Nitrogen Evaporators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automated Parallel Nitrogen Evaporators total production and demand, 2021-2032, (Units)

Global Automated Parallel Nitrogen Evaporators total production value, 2021-2032, (USD Million)

Global Automated Parallel Nitrogen Evaporators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automated Parallel Nitrogen Evaporators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automated Parallel Nitrogen Evaporators domestic production, consumption, key domestic manufacturers and share

Global Automated Parallel Nitrogen Evaporators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automated Parallel Nitrogen Evaporators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automated Parallel Nitrogen Evaporators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automated Parallel Nitrogen Evaporators 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 Biotage, Organomation Associates, Labconco Corporation, Fluid Management Systems, RayKol Group Corp, Beijing LabTech Instruments, Porvair Sciences, Cole-Parmer Instrument Company, Beijing Titan Instruments, Beijing Polytech Instruments, 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 Automated Parallel Nitrogen Evaporators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Automated Parallel Nitrogen Evaporators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Automated Parallel Nitrogen Evaporators Market, Segmentation by Type:

Water Bath Heating

Dry Block Heating

#### Global Automated Parallel Nitrogen Evaporators Market, Segmentation by Automation:

Fully Automated

Semi-automated

#### Global Automated Parallel Nitrogen Evaporators Market, Segmentation by Throughput:

Low-throughput (1–12)

Medium-throughput (13–48)

High-throughput (49–100)

## Global Automated Parallel Nitrogen Evaporators Market, Segmentation by Application:

Environmental Testing

Pharmaceutical

R&D

Other

## Companies Profiled:

Biotage

Organomation Associates

Labconco Corporation

Fluid Management Systems

RayKol Group Corp

Beijing LabTech Instruments

Porvair Sciences

Cole-Parmer Instrument Company

Beijing Titan Instruments

Beijing Polytech Instruments

Infitek

HAUK Technology & Development

AELAB Guangzhou

MRC

Athena Technology

A-One Engg. Works

Prochem Tech Machines

Shoko Science

Analytical Technologies

Key Questions Answered:

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

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