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# Global Vacuum Concentrators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vacuum Concentrators market size is expected to reach $ 156 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2024, global vacuum concentrators production reached approximately 16,350 units, with an average global market price of around US$ 6,350 per unit.

Vacuum concentrators are specialized laboratory or process instruments that combine vacuum, centrifugal force and controlled heating to remove solvents from liquid samples and thereby concentrate or completely dry them. By evacuating a sealed chamber, the boiling point of the solvent is significantly reduced; gentle heating and spinning accelerate evaporation while minimizing solvent bumping, cross-contamination and sample loss. Modern centrifugal vacuum concentrators can handle racks of microtubes, vials or microplates in parallel, and are widely deployed for DNA/RNA and oligonucleotide preparation, protein and peptide concentration, metabolomics and small-molecule workflows, as well as sample preparation for chromatography, mass spectrometry, food safety and environmental residue analysis. In these workflows, vacuum concentrators help protect heat-sensitive analytes while improving throughput and reproducibility, and are increasingly regarded as a core part of the standard equipment set in life science and analytical laboratories worldwide.

In today?s market, vacuum concentrators are predominantly positioned as mid- to high-end laboratory instruments, and most manufacturers adopt a ?core technology in-house + critical component sourcing + regional assembly? production model. Leading global brands such as Thermo Fisher?s Savant SpeedVac series, Labconco, Eppendorf and several European instrument makers typically design the vacuum chamber, rotor configurations, control algorithms and user interfaces themselves, while sourcing oil-

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free diaphragm or high-vacuum pumps, refrigerated vapor traps, electronic components and standard rotors from specialist suppliers, and carrying out system integration and testing in the US, Europe or China. At the same time, a large portion of benchtop systems are manufactured by OEM/ODM factories in China, India and other Asian countries and then sold globally under Western or local brands; the portfolios of Labtron, Labdex, Labozon, Longlight and others, with their modular options for pumps and cold traps, illustrate this structure.

From a profitability perspective, product-level gross margins for vacuum concentrators typically fall in the 35%?50% range, with premium multi-function workstations at the upper end and education or entry-level models somewhat lower.

Along the value chain, upstream activities include vacuum and pump systems, refrigerated vapor traps or condensers, rotors and seals, stainless-steel or alloy chamber and enclosure fabrication, temperature-control and electronics modules, embedded firmware and HMI design. Midstream players focus on whole-system design, integration, performance qualification and regulatory compliance, with some providers offering fully integrated workstations that bundle concentrator, pump, cold trap and rotors in a single package. Downstream, vacuum concentrators serve biopharmaceutical and biotech companies, CROs/CDMOs, hospital and academic laboratories, food and environmental testing labs and specialty chemical and agro-residue testing facilities. In these environments, vacuum concentration is embedded in DNA/RNA library preparation, protein and peptide workflows, metabolomics sample prep, small-molecule impurity analysis and enrichment of food and environmental residues, tightly coupled to LC-MS, GC-MS and other advanced analytical platforms.

Key players operating in global vacuum concentrators market include Thermo Fisher Scientific, Thermo Fisher Scientific, Eppendorf, Labconco, Martin Christ, SP Industries (ATS), WIGGENS, Hettich, LaboGene, Gyrozen, Beijing Jiaimu, Hunan Herexi, Beijing Boyikang, Shanghai Bionoon Biotechnology, Longlight Technology, Ningbo Scientz Biotechnology, etc. The top five manufacturers held 62% of the market, in terms of Vacuum Concentrators revenue in 2024. In the global vacuum concentrator market, the Asia-Pacific region is the largest consumer region, accounting for about 38% of the market share, followed by North America, accounting for about 30% of the market.

Market Development Opportunities & Main Driving Factors

Vacuum concentrators sit at the intersection of sample-preparation and life-science laboratory equipment, and their growth is tightly linked to expanding global R&D

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spending in biopharma, multi-omics research and high-throughput analytics. At the same time, governments in the US, Europe and Asia continue to increase federal and institutional R&D budgets?for example, proposed U.S. federal R&D funding exceeds USD 200 billion and Germany?s BMBF allocated about EUR 20.1 billion for research in 2023?supporting upgrades of university, hospital and research-institute laboratories. As proteomics, metabolomics and translational medicine workflows expand, they require robust, high-throughput concentration and drying of DNA/RNA, proteins and multi-analyte metabolite panels, making vacuum concentrators an increasingly standard part of the analytical stack; instrument vendors are responding by integrating automation, refrigerated traps, oil-free pumps, digital monitoring and IoT-based remote diagnostics into turnkey sample-prep workstations tailored to pharma, CRO/CDMO and advanced-research customers.

Despite attractive structural drivers, the vacuum-concentrator industry also faces several headwinds. High-end systems, particularly those bundled with cold traps and vacuum systems, can cost from tens of thousands to well over a hundred thousand U.S. dollars, and ongoing expenses for maintenance, consumables and service elevate total cost of ownership. In periods when academic and public-sector budgets tighten, capital-equipment purchases are often delayed or redirected to lower-cost alternatives such as rotary evaporators, freeze-dryers or consumable-based pre-concentration solutions, a dynamic that contributed to the slowdown in global laboratory-equipment growth observed around 2023?2024. Life-science tool vendors have also experienced destocking and reduced CapEx from customers, with several leading companies reporting revenue and margin pressure in their lab-products segments. Meanwhile, numerous OEM/ODM manufacturers in China and other Asian countries are rapidly expanding into the low- and mid-range segments with standardized platforms and online distribution, putting price pressure on established global brands at the entry level, while in high-end applications vacuum concentrators must compete with alternative technologies such as freeze-dryers and fully automated sample-prep systems. Should investment cycles in proteomics, metabolomics or innovative drug development soften, these factors could amplify volatility in equipment-replacement cycles.

Downstream Demand Trends

On the demand side, vacuum-concentrator usage is evolving along four major axes: multi-omics, high throughput, automation and geographic expansion. Proteomics, metabolomics and multi-omics combinations are playing a growing role in drug discovery, biomarker development and precision medicine, and a large body of literature and application notes shows that refrigerated centrifugal vacuum

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concentration has become a standard preparation step for LC-MS and related platforms, covering DNA/RNA, peptides, small-molecule metabolites and environmental or food-residue samples. In response, users increasingly prefer modular systems with integrated cold traps and oil-free pumps, network connectivity and method storage, and are progressively integrating vacuum concentration with automated SPE, sample aliquoting and online injection into closed-loop, high-throughput workstations to reduce labor and solvent consumption. At the same time, demand is shifting from traditional innovation hubs in North America and Western Europe towards Asia-Pacific and other emerging regions; market analyses indicate that life-science lab-equipment and proteomics-related markets in Asia-Pacific are expected to grow at significantly higher CAGRs than the global average, driven by expansion of local biopharma industries, third-party testing providers and sustained government investment in research infrastructure. As this pattern continues, the vacuum-concentrator business model is likely to transition from a ?high-end imported instrument? pattern toward a globally distributed manufacturing footprint with localized service, application support and channel strategies tailored to regional customer needs.

This report studies the global Vacuum Concentrators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vacuum Concentrators 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 Vacuum Concentrators that contribute to its increasing demand across many markets.

**Highlights and key features of the study**

Global Vacuum Concentrators total production and demand, 2021-2032, (Units)

Global Vacuum Concentrators total production value, 2021-2032, (USD Million)

Global Vacuum Concentrators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Vacuum Concentrators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Vacuum Concentrators domestic production, consumption, key

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domestic manufacturers and share

Global Vacuum Concentrators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Vacuum Concentrators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Vacuum Concentrators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Vacuum Concentrators 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 Thermo Fisher Scientific, Eppendorf, Labconco, Martin Christ, SP Industries (ATS), WIGGENS, Hettich, LaboGene, Gyrozen, Beijing Jiaimu, 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 Vacuum Concentrators market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (USD/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 Vacuum Concentrators Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Concentrators Market, Segmentation by Type:

Individual Vacuum Concentrators

Integrated Vacuum Concentrators

Global Vacuum Concentrators Market, Segmentation by Max.Speed:

? 2000rpm

? 2000rpm

Global Vacuum Concentrators Market, Segmentation by Chemical Resistance:

Standard

Acid-Resistant

Global Vacuum Concentrators Market, Segmentation by Application:

Academic and Research

Biotechnology and Pharmaceutical

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Hospitals and CDC

Others

Companies Profiled:

Thermo Fisher Scientific

Eppendorf

Labconco

Martin Christ

SP Industries (ATS)

WIGGENS

Hettich

LaboGene

Gyrozen

Beijing Jiaimu

Hunan Herexi

Beijing Boyikang

Shanghai Bionoon Biotechnology

Longlight Technology

Ningbo Scientz Biotechnology

**Key Questions Answered:**

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

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