

Laboratory Gas Generators Market Size, Share & Trends Analysis Report By Product (Nitrogen, Hydrogen, Zero Air, Purge Gas), By Application, By End-use, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Laboratory Gas Generators Market Growth & Trends

The global laboratory gas generators market size is anticipated to reach USD 777.4 million by 2030 and is expected to expand at a CAGR of 8.3% during the forecast period, according to a new report by Grand View Research, Inc. The growth of the market is attributed to the growing importance of analytical techniques in drug and food safety testing, growing safety concerns related to the use of conventional gas cylinders, and increasing R&D spending in the life science sector.

Laboratory gas generators operate across diverse applications, including chromatography and mass spectrometry, wherein they provide high-purity gas essential for accurately identifying various substances within samples, contributing to drug development and quality control. Further in drug detection and analysis, gas supplied from generators ensures efficient and accurate analysis of drug composition, purity, and potential contaminants.

In pharmaceutical packaging, nitrogen gas generators create an inert environment, shielding products from oxidation and degradation during transport and storage, ultimately preserving their integrity and efficacy. However, their role goes beyond mere protection. The nitrogen blanketing facilitated by generators also helps improve the

quality of pharmaceutical products. Oxygen exposure can degrade various medications, affecting their potency and shelf life. By creating an oxygen-free environment, generators maintain product quality and extend their usable window.

The laboratory gas generators industry is characterized by intense competition, with numerous manufacturers and suppliers vying for market share. Some of the key players operating in the market include Peak Scientific Instruments, PerkinElmer Inc., Linde plc., VICI DBS, Dorr Technik GmbH & Co. KG, Erre Due S.p.a., and CLAIND srl. Companies are focusing on product innovation, technological advancements, and strategic collaborations to differentiate their offerings and gain a competitive edge. In addition, the growing trend towards customization and modularization in gas generation systems allows end-users to tailor solutions to their specific requirements, further driving market growth and adoption.

Laboratory Gas Generators Market Report Highlights

The nitrogen gas generator segment led the market and accounted for 38% in 2023. The adoption of nitrogen gas generators is driven by their ability to provide high-purity nitrogen on-demand, eliminating the need for gas cylinder handling and storage.

Growing Liquid Chromatography-Mass Spectrometry (LC-MS) field, crucial for drug discovery and metabolomics, drives the need for high-purity nitrogen and helium gas generators for nebulization and collision gas.

The life science sector represents a significant end-user segment for laboratory gas generators, driven by the increasing demand for analytical instruments in drug discovery, development, and quality control processes.

North America dominated the market owing to the increasing investments in the life science, food & beverage, and chemical sectors in the region.

In July 2023, Peak Scientific Instruments introduced nitrogen gas generation solutions with the release of the Corona 1010A. This innovative solution delivers high-purity, filtered nitrogen gas, empowering various applications with a reliable and potent source. Capable of delivering flows up to 5 liters per minute at pressures reaching 80psi.

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