

# **Nitrogen Gas-Based Air Separation Unit Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032**

<https://marketpublishers.com/r/N6205F427F39EN.html>

Date: October 2024

Pages: 100

Price: US\$ 4,850.00 (Single User License)

ID: N6205F427F39EN

## **Abstracts**

The Global Nitrogen Gas-Based Air Separation Unit Market reached USD 2.2 billion in 2023 and is anticipated to grow at a 4.7% CAGR from 2024 to 2032. This growth is fueled by rising demand for nitrogen across diverse industries, where nitrogen plays a crucial role. Increased emphasis on energy efficiency and sustainable nitrogen ASU technology further bolsters the market growth trajectory. In terms of process, the cryogenic segment is expected to surpass USD 2.2 billion by 2032. The appeal of cryogenic-based ASUs lies in their efficiency and capability to produce high-purity gases needed across sectors like steel production, electronics, and healthcare. The healthcare industry, in particular, benefits from cryogenic nitrogen ASUs, as they are integral to producing the high-purity gases required in various applications.

With public and private investments rising in healthcare, demand for cryogenic nitrogen ASUs continues to strengthen. In terms of end-use, the healthcare sector stands out, forecasted to grow at over 5.6% CAGR through 2032. High-purity nitrogen has become essential in medical applications, including cryopreservation, pharmaceutical production, and manufacturing of medical devices. As the healthcare industry expands, so does its need for reliable, high-quality nitrogen gas solutions, significantly impacting the ASU market. The U.S. nitrogen gas-based ASU market is expected to exceed USD 2.3 billion by 2032. The country's focus on strengthening its manufacturing, healthcare, and energy industries has spurred demand for industrial gases, with government initiatives supporting energy security and industrial growth.

The establishment of advanced facilities for nitrogen production aligns with the region's push to meet the rising demand for industrial gases, reinforcing the ASU market expansion. The nitrogen gas-based ASU market is poised for robust growth driven by

technological advancements increasing across industries and the pursuit of energy-efficient solutions. Enhanced investment across manufacturing, healthcare, and energy sectors, coupled with heightened demand for high-purity nitrogen, positions this market for sustained progress.

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