

North America Non-Cryogenic Air Separation Unit Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

North America Non-Cryogenic Air Separation Unit Market reached a valuation of USD 375.7 million in 2023 and is anticipated to expand at a CAGR of 3.7% from 2024 to 2032. A primary driver of this growth is the rising industrial demand for nitrogen, coupled with the energy efficiency and low operational costs offered by non-cryogenic methods. Sectors such as electronics, chemicals, and oil and gas increasingly rely on nitrogen for various applications, including blanketing, purging, and insertion. Non-cryogenic units ensure a dependable, on-demand supply of nitrogen, which is crucial for maintaining continuous operations across these industries. Methods like pressure swing adsorption (PSA) and vacuum swing adsorption (VSA) utilized in non-cryogenic air separation provide notable energy savings compared to traditional cryogenic techniques. These methods eliminate the need for extreme temperatures, thus reducing operational costs and making them more attractive to industries pursuing sustainable and cost-effective gas production solutions. The nitrogen-based air separation unit sector is projected to exceed USD 197 million by 2032, driven by stringent environmental regulations and a growing emphasis on sustainability. Non-cryogenic ASUs are increasingly integral to processes focused on minimizing greenhouse gas emissions, particularly in areas such as carbon capture and storage (CCS) and low-carbon hydrogen production. The healthcare segment is expected to grow at a CAGR of over 2.5% through 2032, significantly influencing the non-cryogenic ASU market. The COVID-19 pandemic underscored the vital role of medical oxygen, leading to heightened investments in ASUs to secure a stable supply. The ongoing use of oxygen in various medical procedures, including surgeries and respiratory treatments, stimulates demand, further contributing to market growth. In the United States, the non-cryogenic air separation unit market is forecasted to surpass USD 264 million by 2032. This growth is fueled by robust demand from the healthcare, manufacturing, and energy

sectors. Government initiatives and investments fostering industrial growth and enhancing energy security are expected to support market expansion. Additionally, the oil and gas industry's substantial need for nitrogen and other industrial gases—essential for enhanced oil recovery and refining processes—is propelling the overall industry growth in the U.S.

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