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Asia Pacific Non-Cryogenic Air Separation Unit Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

Asia Pacific Non-Cryogenic Air Separation Unit Market was valued at USD 677.2 million in 2023 and is projected to grow at a CAGR of 4.4% from 2024 to 2032. The demand for these units is being propelled by sectors such as healthcare, manufacturing, and energy. Non-cryogenic techniques, like membrane separation and pressure swing adsorption, offer energy-efficient solutions, especially for smaller-scale applications and moderate purity. As energy consumption concerns rise and product applications expand across industries, the landscape of the industry is evolving. Non-cryogenic ASUs, with their lower energy demands, present a compelling alternative to cryogenic systems. This energy efficiency is especially attractive to industries burdened by high energy costs. Moreover, sectors like metal cutting and welding are increasingly adopting non-cryogenic ASUs for their reliable nitrogen and oxygen delivery, further bolstering market growth. The overall Asia Pacific Non-Cryogenic Air Separation Unit industry is classified based on gas, end-use, and country. The market is segmented by gas into nitrogen, oxygen, argon, and others.

The nitrogen-based air separation unit segment is anticipated to exceed USD 379 million by 2032. The regional shift towards sustainability, coupled with stringent environmental regulations, is driving the adoption of non-cryogenic Air Separation Units (ASUs). These units are pivotal in processes like carbon capture and storage (CCS) and producing low-carbon hydrogen, both aimed at curbing greenhouse gas emissions. Segmented by end use, the market includes iron & steel, oil & gas, healthcare, chemicals, and others. The healthcare segment is projected to grow at over 3% by 2032. The surging demand for medical oxygen in surgeries, treatments, and respiratory therapies is propelling investments in ASUs, ensuring a steady supply.

Additionally, the increasing prevalence of chronic respiratory diseases and the rising aging population are further driving the demand for oxygen supply systems in

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healthcare facilities. Furthermore, advancements in healthcare infrastructure, especially in emerging economies, are expected to boost the adoption of ASUs to meet growing medical oxygen needs. China leads the regional market, with projections to surpass USD 207 million by 2032. China's rapid urbanization, industrialization, and manufacturing sector growth are driving the demand for non-cryogenic ASUs. Additionally, the country's transition to renewable energy and its emphasis on hydrogen as a cleaner fuel are further fueling this demand.Countries like India are making significant investments in healthcare infrastructure, boosting the market. For example, in April 2024, India's government earmarked over USD 10.8 billion in its interim Budget for 2024–2025, underscoring its commitment to healthcare. Such investments bolster the healthcare sector, indirectly supporting ASU deployment.

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