

Air Separation Unit Market to Surpass \$8.8 Billion by 2033 Driven by Industrial & Medical Gas Demand

□ *Global Air Separation Unit Market Analysis 2024-2033: Industry Growth Fueled by Steel & Petrochemical Sectors*

WILMINGTON, DE, UNITED STATES, July 17, 2025 /EINPresswire.com/ --

The global [air separation unit market](#) is poised for steady growth, as industrialization and healthcare infrastructure expansion continue worldwide. Valued at \$5.8 billion in 2023, the market is projected to reach \$8.8 billion by 2033, growing at a CAGR of 4.3% from 2024 to 2033.

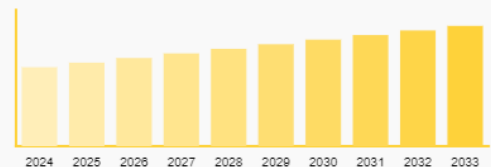
Report Insights

Market was valued at
\$5.8 Billion
2023

Projected to reach
\$8.8 Billion
2033

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2024-2033

CAGR 4.3%



Air Separation Unit Market
Report Code: A07825

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Air separation units (ASUs) are essential in producing high-purity gases like oxygen, nitrogen, and argon from atmospheric air. These units play a critical role in diverse sectors, including iron & steel, petrochemicals, medical, and chemical manufacturing industries.



Air separation unit market to hit \$8.8 billion by 2033, driven by rising demand from iron, steel, petrochemical, and medical industries. □□

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□ Key Growth Drivers

□ Surging demand for oxygen and nitrogen from iron &

steel, petrochemical, and chemical industries

□ Increasing oxygen supply requirements in healthcare and medical infrastructure

□ Growing energy demand and [industrial gas](#) supply requirements in developing economies

□□ Technological advancements improving operational efficiency and reducing production costs

□ Market Segmentation Insights

By Process:

Cryogenic Distillation: This segment dominates the air separation unit market due to its efficiency in producing large volumes of high-purity gases, especially oxygen and nitrogen.

Non-Cryogenic Distillation: Suitable for smaller-scale applications, this segment is growing due to lower capital and operational costs.

By Gas Type:

Oxygen: The largest segment, driven by demand in steel production, medical oxygen supply, and chemical processes.

Nitrogen: Widely used for inerting, blanketing, and cooling applications across petrochemical and electronics industries.

Argon: Essential in welding, metal fabrication, and high-tech manufacturing.

Others: Include rare gases like krypton and xenon, used in niche applications.

By End-Use Industry:

Iron and Steel: Oxygen from air separation units is vital for blast furnace operations, making this the leading segment.

Petrochemical: Rising investments in refineries and chemical plants are boosting demand for nitrogen and oxygen.

Medical: Increasing demand for medical-grade oxygen, especially post-COVID-19, contributes significantly to market growth.

Chemical Manufacturing: Process industries requiring inert gases drive this segment.

Others: Include electronics, glass production, and food & beverage sectors.

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□ Regional Outlook: Asia-Pacific Holds Dominance

Asia-Pacific leads the air separation unit market, attributed to large-scale industrialization, urbanization, and healthcare investments in countries like China □□, India □□, and Japan □□. Rapid expansion in steel and petrochemical sectors fuels regional demand.

North America and Europe also contribute significantly, driven by technological advancements, healthcare infrastructure upgrades, and environmental regulations promoting oxygen use in wastewater treatment.

Emerging markets in LAMEA (Latin America, Middle East, and Africa) are seeing increased adoption of ASUs due to growth in [oil refining](#), healthcare services, and manufacturing industries.

□ Key Players Driving Market Competition

Major players shaping the competitive landscape include:

Linde PLC

Air Products and Chemicals, Inc.

TAIYO NIPPON SANSO CORPORATION

INOX-Air Products Inc.

Bhuruka Gases Limited

Brise Chemicals

Nikkiso

Comi Polaris Systems

Maddox Industrial Group

ING. L. & A. BOSCHI ITALY

Hangzhou Nuzhuo Technology Group Co., Ltd.

These companies are focusing on capacity expansions, strategic partnerships, and technological innovations like modular ASUs to tap emerging market demands.

□ Emerging Trends and Opportunities

Modular ASUs enabling quicker installation and flexible operations

Green technologies focusing on reducing environmental footprint of gas production

Rising demand for on-site gas generation solutions across remote industries

Investment in industrial gas supply chain resilience, post-COVID-19 disruptions

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□ Conclusion

In conclusion, the air separation unit market is set for sustainable growth, driven by industrial expansion, healthcare infrastructure development, and technological innovations. Oxygen, nitrogen, and argon production are becoming increasingly vital across key sectors, positioning ASU manufacturers for significant opportunities over the next decade.

With Asia-Pacific leading global demand and emerging markets offering new growth avenues, industry stakeholders should focus on regional strategies and process optimizations to capitalize on evolving trends.

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