

Air Separation Unit Market By Process (Cryogenic Distillation, Non-Cryogenic Distillation) , By Gas Type (Oxygen, Nitrogen, Argon, Others) By End-Use Industry (Iron and Steel, Petrochemical, Medical, Chemical Manufacturing, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Air Separation Unit Market

The air separation unit market was valued at \$5.8 billion in 2023 and is projected to reach \$8.8 billion by 2033, growing at a CAGR of 4.3% from 2024 to 2033.

An air separation unit is used to separate the atmospheric air into its primary components, including oxygen, nitrogen, and sometimes argon, through cryogenic distillation. The process involves the compression and purification of atmospheric air to remove impurities such as carbon dioxide and water vapor. ASUs are deployed in industrial gas production and are utilized in the supply chain of industrial gases, medical oxygen, and cryogenic fuels for aerospace & healthcare industries.

Rise in urbanization and industrialization is boosting the demand for ASUs in different sectors, including chemicals, steel, healthcare, and electronics. Furthermore, the market growth is being driven by the expansion of the oil & gas industry, which requires ASUs for enhanced oil recovery and refining processes. The deployment of air separation units in the generation of renewable energy is an emerging trend in the market. Renewable energy plants are currently leveraging technologies such as on-site renewable power generation to reduce their carbon footprint, in which ASUs play a significant role in carbon capture and oxygen enrichment.

However, ASUs are energy intensive, hence surging the overall operational costs for the units. This deters several potential buyers from investing in them. In addition, the air separation unit market is highly fragmented, as several suppliers offer competitive technologies at similar prices. On the contrary, the implementation of stringent laws & regulations promoting the reduction of greenhouse emissions and use of clean technologies is boosting the adoption of ASUs. This is a result of advancements in ASU technology allowing the capture and utilization of carbon dioxide from industries, thereby assisting in carbon capture and storage (CCS) initiatives.

Segment Review

The air separation unit market is segmented into process, gas type, end-use industry, and region. By process, the market is bifurcated into cryogenic distillation and non-cryogenic distillation. As per gas type, it is divided into oxygen, nitrogen, argon, and others. Depending on end-use industry, it is classified into iron & steel, petrochemical, medical, chemical manufacturing, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By process, the cryogenic segment is expected to maintain its dominance during the forecast period.

As per gas type, the oxygen segment is predicted to be the highest shareholder during the forecast period.

Depending on end-use industry, the medical segment is anticipated to lead the market by 2033.

Region wise, North America is projected to be the highest revenue generator by 2033.

Competition Analysis

The major players operating in the global air separation unit market include Linde PLC, Air Products and Chemicals, Inc., Nikkiso, ING. L. & A. BOSCHI ITALY, Bhuruka Gases Limited, Hangzhou Nuzhu Technology Group Co., Ltd., TAIYO NIPPON SANCO CORPORATION, Brise Chemicals, Comi Polaris Systems, INOX-Air Products Inc., and

Maddox Industrial Group. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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Installed Base analysis

Investment Opportunities

Technology Trend Analysis

Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key Market Segments

By Process

Cryogenic Distillation

Non-Cryogenic Distillation

By Gas Type

Oxygen

Nitrogen

Argon

Others

By End-Use Industry

Iron and Steel

Petrochemical

Medical

Chemical Manufacturing

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Linde PLC

Air Products and Chemicals, Inc.

Nikkiso

ING. L. & A. BOSCHI ITALY

Bhuruka Gases Limited

Hangzhou Nuzhu%li%Technology Group Co.,Ltd.

TAIYO NIPPON SANSO CORPORATION

Brise Chemicals

Comi Polaris Systems

INOX-Air Products Inc.

Maddox Industrial Group

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