

Chemical Air Separation Unit Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global Chemical Air Separation Unit Market was valued at USD 1.3 billion in 2023 and is expected to grow at a compound annual growth rate (CAGR) of 4.9% from 2024 to 2032. This growth is driven by the escalating demand for industrial gases in chemical manufacturing and continuous advancements in air separation technologies. Chemical air separation units (ASUs) play a critical role in generating high-purity gases such as nitrogen, oxygen, and argon, essential for a wide range of applications. The rising demand for chemicals and specialty products worldwide is significantly impacting the need for efficient ASUs. The growing chemical industry is pushing manufacturers to adopt advanced air separation technologies to optimize their production processes and improve product quality.

This trend is especially prominent in rapidly developing regions, where industrialization is accelerating. Consequently, the adoption of innovative air separation systems is expected to rise steadily over the forecast period. The chemical air separation unit market is categorized based on process, gas type, and geography. In terms of processes, the market includes cryogenic and non-cryogenic methods.

Among these, cryogenic air separation units are expected to witness substantial growth, with their market value projected to surpass USD 1.2 billion by 2032. Innovations in both cryogenic and non-cryogenic technologies are enhancing the performance of ASUs by ensuring higher gas purity, minimizing energy consumption, and allowing flexible operations. These improvements align with the evolving demands of the chemical industry, which prioritizes efficiency and scalability. When segmented by gas type, the market comprises nitrogen, oxygen, argon, and other gases. Nitrogen is anticipated to grow at a robust CAGR, exceeding 5% through 2032, due to its critical role in various chemical processes.

The increasing emphasis on sustainable practices and compliance with environmental

regulations has further spurred the adoption of advanced ASUs in the chemical sector. Regionally, the Asia Pacific market is poised for remarkable expansion, with growth projected to exceed USD 0.8 billion by 2032. The region's rapid industrialization and the growing manufacturing sector are key factors driving the demand for air separation technologies. As industries continue to evolve, the reliance on cutting-edge ASUs is expected to grow, solidifying the market's position in the region.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data Collection methods
- 1.2 Base estimates & calculations
 - 1.2.1 Base year calculations
 - 1.2.2 Key trends for market estimation
- 1.3 Forecast model
- 1.4 Primary research and validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 – 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's Analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL Analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY PROCESS, 2021 – 2032 (USD BILLION)

- 5.1 Key trends
- 5.2 Cryogenic
- 5.3 Non-cryogenic

CHAPTER 6 MARKET SIZE AND FORECAST, BY GAS, 2021 – 2032 (USD BILLION)

- 6.1 Key trends
- 6.2 Nitrogen
- 6.3 Oxygen
- 6.4 Argon
- 6.5 Others

CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2032 (USD BILLION)

- 7.1 Key trends
- 7.2 North America
 - 7.2.1 U.S.
 - 7.2.2 Canada
 - 7.2.3 Mexico
- 7.3 Europe
 - 7.3.1 Germany
 - 7.3.2 UK
 - 7.3.3 France
 - 7.3.4 Spain
 - 7.3.5 Italy
- 7.4 Asia Pacific
 - 7.4.1 China
 - 7.4.2 India
 - 7.4.3 Japan
 - 7.4.4 South Korea
 - 7.4.5 Australia

7.5 Middle East & Africa

7.5.1 Saudi Arabia

7.5.2 UAE

7.5.3 South Africa

7.6 Latin America

7.6.1 Brazil

7.6.2 Argentina

CHAPTER 8 COMPANY PROFILES

8.1 Air Liquide

8.2 Air Products and Chemicals, Inc.

8.3 AIR WATER INC

8.4 AMCS Corporation

8.5 CRYOTEC Anlagenbau GmbH

8.6 Enerflex Ltd.

8.7 KaiFeng Air Separation Group Co.,LTD.

8.8 Linde plc

8.9 Messer

8.10 Praxair Technology, Inc.

8.11 Ranch Cryogenics, Inc.

8.12 Sichuan Air Separation Plant Group

8.13 TAIYO NIPPON SANSO CORPORATION

8.14 Technex

8.15 Universal Industrial Gases, Inc.

8.16 Yingde Gases

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