

Global Air Separation Plant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air Separation Plant market size is expected to reach \$ 7131 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

An Air Separation Plant is a large-scale industrial facility designed to extract and purify components of atmospheric air—primarily oxygen (O₂), nitrogen (N₂), and argon (Ar)—using physical separation techniques.

Air Separation Plants are essential for operations in steel manufacturing, chemicals, healthcare, electronics, oil and gas, food processing, and energy sectors. The market is primarily driven by increasing demand for industrial gases in both mature and emerging economies. Oxygen, for example, is critical in steel production and medical applications, while nitrogen is extensively used for inerting, purging, and packaging in the food and electronics industries. The cryogenic air separation process is the most widely adopted technology, offering high-purity gas output and economies of scale, especially for large industrial operations. However, alternative methods like Pressure Swing Adsorption (PSA) and membrane separation are also gaining traction, particularly for smaller-scale or on-site gas generation needs where cost, speed, and flexibility are priorities. Innovations in plant automation, digital monitoring, and energy efficiency are further enhancing operational performance and reducing lifecycle costs, making modern ASPs more sustainable and reliable. Geographically, Asia-Pacific dominates the air separation plant market, with China and India leading due to rapid industrialization, urban growth, and increased investments in infrastructure and manufacturing. The rise of the healthcare and energy sectors in these regions has also contributed to a surge in demand for medical oxygen and high-purity gases. North America and Europe remain key markets as well, driven by technological advancements, strict environmental regulations, and a focus on decarbonization across heavy industries. Despite positive

growth prospects, the market also faces challenges including high capital investment, long project lead times, and energy-intensive operations. Environmental concerns are prompting manufacturers to focus on low-carbon design, renewable-powered ASPs, and improved gas recovery systems. Partnerships, mergers, and long-term gas supply agreements are also common strategies among major players like Linde plc, Air Liquide, Air Products and Chemicals, Inc., and Taiyo Nippon Sanso to expand capacity and serve large industrial clients globally.

This report studies the global Air Separation Plant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air Separation Plant and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Air Separation Plant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air Separation Plant total production and demand, 2021-2032, (K CMPH)

Global Air Separation Plant total production value, 2021-2032, (USD Million)

Global Air Separation Plant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K CMPH), (based on production site)

Global Air Separation Plant consumption by region & country, CAGR, 2021-2032 & (K CMPH)

U.S. VS China: Air Separation Plant domestic production, consumption, key domestic manufacturers and share

Global Air Separation Plant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K CMPH)

Global Air Separation Plant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K CMPH)

Global Air Separation Plant production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K CMPH)

This report profiles key players in the global Air Separation Plant market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Air Liquide, Hangyang Group, Sichuan Air Separation, Air Products, HNEC, Taiyo Nippon Sanso, Messer, Cryogenmash, AMCS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Air Separation Plant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K CMPH) and average price (USD/CMPH) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Air Separation Plant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air Separation Plant Market, Segmentation by Type:

Below 20 K CMPH

20-60 K CMPH

Above 60 K CMPH

Global Air Separation Plant Market, Segmentation by Application:

Chemical

Industry Gas

Metallurgy Industry

Others

Companies Profiled:

Linde

Air Liquide

Hangyang Group

Sichuan Air Separation

Air Products

HNEC

Taiyo Nippon Sanso

Messer

Cryogenmash

AMCS

Air Water Plant & Engineering

Key Questions Answered:

1. How big is the global Air Separation Plant market?
2. What is the demand of the global Air Separation Plant market?
3. What is the year over year growth of the global Air Separation Plant market?
4. What is the production and production value of the global Air Separation Plant market?
5. Who are the key producers in the global Air Separation Plant market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Air Separation Plant Introduction
- 1.2 World Air Separation Plant Supply & Forecast
 - 1.2.1 World Air Separation Plant Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Air Separation Plant Production (2021-2032)
 - 1.2.3 World Air Separation Plant Pricing Trends (2021-2032)
- 1.3 World Air Separation Plant Production by Region (Based on Production Site)
 - 1.3.1 World Air Separation Plant Production Value by Region (2021-2032)
 - 1.3.2 World Air Separation Plant Production by Region (2021-2032)
 - 1.3.3 World Air Separation Plant Average Price by Region (2021-2032)
 - 1.3.4 North America Air Separation Plant Production (2021-2032)
 - 1.3.5 Europe Air Separation Plant Production (2021-2032)
 - 1.3.6 China Air Separation Plant Production (2021-2032)
 - 1.3.7 Japan Air Separation Plant Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Air Separation Plant Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Air Separation Plant Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Air Separation Plant Demand (2021-2032)
- 2.2 World Air Separation Plant Consumption by Region
 - 2.2.1 World Air Separation Plant Consumption by Region (2021-2026)
 - 2.2.2 World Air Separation Plant Consumption Forecast by Region (2027-2032)
- 2.3 United States Air Separation Plant Consumption (2021-2032)
- 2.4 China Air Separation Plant Consumption (2021-2032)
- 2.5 Europe Air Separation Plant Consumption (2021-2032)
- 2.6 Japan Air Separation Plant Consumption (2021-2032)
- 2.7 South Korea Air Separation Plant Consumption (2021-2032)
- 2.8 ASEAN Air Separation Plant Consumption (2021-2032)
- 2.9 India Air Separation Plant Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Air Separation Plant Production Value by Manufacturer (2021-2026)

- 3.2 World Air Separation Plant Production by Manufacturer (2021-2026)
- 3.3 World Air Separation Plant Average Price by Manufacturer (2021-2026)
- 3.4 Air Separation Plant Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Air Separation Plant Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Air Separation Plant in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Air Separation Plant in 2025
- 3.6 Air Separation Plant Market: Overall Company Footprint Analysis
 - 3.6.1 Air Separation Plant Market: Region Footprint
 - 3.6.2 Air Separation Plant Market: Company Product Type Footprint
 - 3.6.3 Air Separation Plant Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Air Separation Plant Production Value Comparison
 - 4.1.1 United States VS China: Air Separation Plant Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Air Separation Plant Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Air Separation Plant Production Comparison
 - 4.2.1 United States VS China: Air Separation Plant Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Air Separation Plant Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Air Separation Plant Consumption Comparison
 - 4.3.1 United States VS China: Air Separation Plant Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Air Separation Plant Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Air Separation Plant Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Air Separation Plant Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Air Separation Plant Production Value (2021-2026)

4.4.3 United States Based Manufacturers Air Separation Plant Production (2021-2026)

4.5 China Based Air Separation Plant Manufacturers and Market Share

4.5.1 China Based Air Separation Plant Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Air Separation Plant Production Value (2021-2026)

4.5.3 China Based Manufacturers Air Separation Plant Production (2021-2026)

4.6 Rest of World Based Air Separation Plant Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Air Separation Plant Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Air Separation Plant Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Air Separation Plant Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Air Separation Plant Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below 20 K CMPH

5.2.2 20-60 K CMPH

5.2.3 Above 60 K CMPH

5.3 Market Segment by Type

5.3.1 World Air Separation Plant Production by Type (2021-2032)

5.3.2 World Air Separation Plant Production Value by Type (2021-2032)

5.3.3 World Air Separation Plant Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Air Separation Plant Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Chemical

6.2.2 Industry Gas

6.2.3 Metallurgy Industry

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Air Separation Plant Production by Application (2021-2032)

6.3.2 World Air Separation Plant Production Value by Application (2021-2032)

6.3.3 World Air Separation Plant Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 Linde

7.1.1 Linde Details

7.1.2 Linde Major Business

7.1.3 Linde Air Separation Plant Product and Services

7.1.4 Linde Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 Linde Recent Developments/Updates

7.1.6 Linde Competitive Strengths & Weaknesses

7.2 Air Liquide

7.2.1 Air Liquide Details

7.2.2 Air Liquide Major Business

7.2.3 Air Liquide Air Separation Plant Product and Services

7.2.4 Air Liquide Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 Air Liquide Recent Developments/Updates

7.2.6 Air Liquide Competitive Strengths & Weaknesses

7.3 Hangyang Group

7.3.1 Hangyang Group Details

7.3.2 Hangyang Group Major Business

7.3.3 Hangyang Group Air Separation Plant Product and Services

7.3.4 Hangyang Group Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 Hangyang Group Recent Developments/Updates

7.3.6 Hangyang Group Competitive Strengths & Weaknesses

7.4 Sichuan Air Separation

7.4.1 Sichuan Air Separation Details

7.4.2 Sichuan Air Separation Major Business

7.4.3 Sichuan Air Separation Air Separation Plant Product and Services

7.4.4 Sichuan Air Separation Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 Sichuan Air Separation Recent Developments/Updates

7.4.6 Sichuan Air Separation Competitive Strengths & Weaknesses

7.5 Air Products

7.5.1 Air Products Details

- 7.5.2 Air Products Major Business
- 7.5.3 Air Products Air Separation Plant Product and Services
- 7.5.4 Air Products Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.5.5 Air Products Recent Developments/Updates
- 7.5.6 Air Products Competitive Strengths & Weaknesses
- 7.6 HNEC
 - 7.6.1 HNEC Details
 - 7.6.2 HNEC Major Business
 - 7.6.3 HNEC Air Separation Plant Product and Services
 - 7.6.4 HNEC Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.6.5 HNEC Recent Developments/Updates
 - 7.6.6 HNEC Competitive Strengths & Weaknesses
- 7.7 Taiyo Nippon Sanso
 - 7.7.1 Taiyo Nippon Sanso Details
 - 7.7.2 Taiyo Nippon Sanso Major Business
 - 7.7.3 Taiyo Nippon Sanso Air Separation Plant Product and Services
 - 7.7.4 Taiyo Nippon Sanso Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.7.5 Taiyo Nippon Sanso Recent Developments/Updates
 - 7.7.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses
- 7.8 Messer
 - 7.8.1 Messer Details
 - 7.8.2 Messer Major Business
 - 7.8.3 Messer Air Separation Plant Product and Services
 - 7.8.4 Messer Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.8.5 Messer Recent Developments/Updates
 - 7.8.6 Messer Competitive Strengths & Weaknesses
- 7.9 Cryogenmash
 - 7.9.1 Cryogenmash Details
 - 7.9.2 Cryogenmash Major Business
 - 7.9.3 Cryogenmash Air Separation Plant Product and Services
 - 7.9.4 Cryogenmash Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.9.5 Cryogenmash Recent Developments/Updates
 - 7.9.6 Cryogenmash Competitive Strengths & Weaknesses
- 7.10 AMCS

- 7.10.1 AMCS Details
- 7.10.2 AMCS Major Business
- 7.10.3 AMCS Air Separation Plant Product and Services
- 7.10.4 AMCS Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.10.5 AMCS Recent Developments/Updates
- 7.10.6 AMCS Competitive Strengths & Weaknesses
- 7.11 Air Water Plant & Engineering
 - 7.11.1 Air Water Plant & Engineering Details
 - 7.11.2 Air Water Plant & Engineering Major Business
 - 7.11.3 Air Water Plant & Engineering Air Separation Plant Product and Services
 - 7.11.4 Air Water Plant & Engineering Air Separation Plant Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.11.5 Air Water Plant & Engineering Recent Developments/Updates
 - 7.11.6 Air Water Plant & Engineering Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Air Separation Plant Industry Chain
- 8.2 Air Separation Plant Upstream Analysis
 - 8.2.1 Air Separation Plant Core Raw Materials
 - 8.2.2 Main Manufacturers of Air Separation Plant Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Air Separation Plant Production Mode
- 8.6 Air Separation Plant Procurement Model
- 8.7 Air Separation Plant Industry Sales Model and Sales Channels
 - 8.7.1 Air Separation Plant Sales Model
 - 8.7.2 Air Separation Plant Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Air Separation Plant Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Air Separation Plant Production Value by Region (2021-2026) & (USD Million)

Table 3. World Air Separation Plant Production Value by Region (2027-2032) & (USD Million)

Table 4. World Air Separation Plant Production Value Market Share by Region (2021-2026)

Table 5. World Air Separation Plant Production Value Market Share by Region (2027-2032)

Table 6. World Air Separation Plant Production by Region (2021-2026) & (K CMPH)

Table 7. World Air Separation Plant Production by Region (2027-2032) & (K CMPH)

Table 8. World Air Separation Plant Production Market Share by Region (2021-2026)

Table 9. World Air Separation Plant Production Market Share by Region (2027-2032)

Table 10. World Air Separation Plant Average Price by Region (2021-2026) & (USD/CMPH)

Table 11. World Air Separation Plant Average Price by Region (2027-2032) & (USD/CMPH)

Table 12. Air Separation Plant Major Market Trends

Table 13. World Air Separation Plant Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K CMPH)

Table 14. World Air Separation Plant Consumption by Region (2021-2026) & (K CMPH)

Table 15. World Air Separation Plant Consumption Forecast by Region (2027-2032) & (K CMPH)

Table 16. World Air Separation Plant Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Air Separation Plant Producers in 2025

Table 18. World Air Separation Plant Production by Manufacturer (2021-2026) & (K CMPH)

Table 19. Production Market Share of Key Air Separation Plant Producers in 2025

Table 20. World Air Separation Plant Average Price by Manufacturer (2021-2026) & (USD/CMPH)

Table 21. Global Air Separation Plant Company Evaluation Quadrant

Table 22. World Air Separation Plant Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Air Separation Plant Production Site of Key Manufacturer

Table 24. Air Separation Plant Market: Company Product Type Footprint

Table 25. Air Separation Plant Market: Company Product Application Footprint

Table 26. Air Separation Plant Competitive Factors

Table 27. Air Separation Plant New Entrant and Capacity Expansion Plans

Table 28. Air Separation Plant Mergers & Acquisitions Activity

Table 29. United States VS China Air Separation Plant Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Air Separation Plant Production Comparison, (2021 & 2025 & 2032) & (K CMPH)

Table 31. United States VS China Air Separation Plant Consumption Comparison, (2021 & 2025 & 2032) & (K CMPH)

Table 32. United States Based Air Separation Plant Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Air Separation Plant Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Air Separation Plant Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Air Separation Plant Production (2021-2026) & (K CMPH)

Table 36. United States Based Manufacturers Air Separation Plant Production Market Share (2021-2026)

Table 37. China Based Air Separation Plant Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Air Separation Plant Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Air Separation Plant Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Air Separation Plant Production, (2021-2026) & (K CMPH)

Table 41. China Based Manufacturers Air Separation Plant Production Market Share (2021-2026)

Table 42. Rest of World Based Air Separation Plant Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Air Separation Plant Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Air Separation Plant Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Air Separation Plant Production, (2021-2026) & (K CMPH)

Table 46. Rest of World Based Manufacturers Air Separation Plant Production Market Share (2021-2026)

Table 47. World Air Separation Plant Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Air Separation Plant Production by Type (2021-2026) & (K CMPH)

Table 49. World Air Separation Plant Production by Type (2027-2032) & (K CMPH)

Table 50. World Air Separation Plant Production Value by Type (2021-2026) & (USD Million)

Table 51. World Air Separation Plant Production Value by Type (2027-2032) & (USD Million)

Table 52. World Air Separation Plant Average Price by Type (2021-2026) & (USD/CMPH)

Table 53. World Air Separation Plant Average Price by Type (2027-2032) & (USD/CMPH)

Table 54. World Air Separation Plant Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Air Separation Plant Production by Application (2021-2026) & (K CMPH)

Table 56. World Air Separation Plant Production by Application (2027-2032) & (K CMPH)

Table 57. World Air Separation Plant Production Value by Application (2021-2026) & (USD Million)

Table 58. World Air Separation Plant Production Value by Application (2027-2032) & (USD Million)

Table 59. World Air Separation Plant Average Price by Application (2021-2026) & (USD/CMPH)

Table 60. World Air Separation Plant Average Price by Application (2027-2032) & (USD/CMPH)

Table 61. Linde Basic Information, Manufacturing Base and Competitors

Table 62. Linde Major Business

Table 63. Linde Air Separation Plant Product and Services

Table 64. Linde Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Linde Recent Developments/Updates

Table 66. Linde Competitive Strengths & Weaknesses

Table 67. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 68. Air Liquide Major Business

- Table 69. Air Liquide Air Separation Plant Product and Services
- Table 70. Air Liquide Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 71. Air Liquide Recent Developments/Updates
- Table 72. Air Liquide Competitive Strengths & Weaknesses
- Table 73. Hangyang Group Basic Information, Manufacturing Base and Competitors
- Table 74. Hangyang Group Major Business
- Table 75. Hangyang Group Air Separation Plant Product and Services
- Table 76. Hangyang Group Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Hangyang Group Recent Developments/Updates
- Table 78. Hangyang Group Competitive Strengths & Weaknesses
- Table 79. Sichuan Air Separation Basic Information, Manufacturing Base and Competitors
- Table 80. Sichuan Air Separation Major Business
- Table 81. Sichuan Air Separation Air Separation Plant Product and Services
- Table 82. Sichuan Air Separation Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Sichuan Air Separation Recent Developments/Updates
- Table 84. Sichuan Air Separation Competitive Strengths & Weaknesses
- Table 85. Air Products Basic Information, Manufacturing Base and Competitors
- Table 86. Air Products Major Business
- Table 87. Air Products Air Separation Plant Product and Services
- Table 88. Air Products Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. Air Products Recent Developments/Updates
- Table 90. Air Products Competitive Strengths & Weaknesses
- Table 91. HNEC Basic Information, Manufacturing Base and Competitors
- Table 92. HNEC Major Business
- Table 93. HNEC Air Separation Plant Product and Services
- Table 94. HNEC Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. HNEC Recent Developments/Updates
- Table 96. HNEC Competitive Strengths & Weaknesses
- Table 97. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors
- Table 98. Taiyo Nippon Sanso Major Business
- Table 99. Taiyo Nippon Sanso Air Separation Plant Product and Services

Table 100. Taiyo Nippon Sanso Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Taiyo Nippon Sanso Recent Developments/Updates

Table 102. Taiyo Nippon Sanso Competitive Strengths & Weaknesses

Table 103. Messer Basic Information, Manufacturing Base and Competitors

Table 104. Messer Major Business

Table 105. Messer Air Separation Plant Product and Services

Table 106. Messer Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Messer Recent Developments/Updates

Table 108. Messer Competitive Strengths & Weaknesses

Table 109. Cryogenmash Basic Information, Manufacturing Base and Competitors

Table 110. Cryogenmash Major Business

Table 111. Cryogenmash Air Separation Plant Product and Services

Table 112. Cryogenmash Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. Cryogenmash Recent Developments/Updates

Table 114. Cryogenmash Competitive Strengths & Weaknesses

Table 115. AMCS Basic Information, Manufacturing Base and Competitors

Table 116. AMCS Major Business

Table 117. AMCS Air Separation Plant Product and Services

Table 118. AMCS Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. AMCS Recent Developments/Updates

Table 120. AMCS Competitive Strengths & Weaknesses

Table 121. Air Water Plant & Engineering Basic Information, Manufacturing Base and Competitors

Table 122. Air Water Plant & Engineering Major Business

Table 123. Air Water Plant & Engineering Air Separation Plant Product and Services

Table 124. Air Water Plant & Engineering Air Separation Plant Production (K CMPH), Price (USD/CMPH), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 125. Air Water Plant & Engineering Recent Developments/Updates

Table 126. Air Water Plant & Engineering Competitive Strengths & Weaknesses

Table 127. Global Key Players of Air Separation Plant Upstream (Raw Materials)

Table 128. Global Air Separation Plant Typical Customers

Table 129. Air Separation Plant Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Air Separation Plant Picture

Figure 2. World Air Separation Plant Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Air Separation Plant Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Air Separation Plant Production (2021-2032) & (K CMPH)

Figure 5. World Air Separation Plant Average Price (2021-2032) & (USD/CMPH)

Figure 6. World Air Separation Plant Production Value Market Share by Region (2021-2032)

Figure 7. World Air Separation Plant Production Market Share by Region (2021-2032)

Figure 8. North America Air Separation Plant Production (2021-2032) & (K CMPH)

Figure 9. Europe Air Separation Plant Production (2021-2032) & (K CMPH)

Figure 10. China Air Separation Plant Production (2021-2032) & (K CMPH)

Figure 11. Japan Air Separation Plant Production (2021-2032) & (K CMPH)

Figure 12. Air Separation Plant Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 15. World Air Separation Plant Consumption Market Share by Region (2021-2032)

Figure 16. United States Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 17. China Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 18. Europe Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 19. Japan Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 20. South Korea Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 21. ASEAN Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 22. India Air Separation Plant Consumption (2021-2032) & (K CMPH)

Figure 23. Producer Shipments of Air Separation Plant by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Air Separation Plant Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Air Separation Plant Markets in 2025

Figure 26. United States VS China: Air Separation Plant Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Air Separation Plant Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Air Separation Plant Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Air Separation Plant Production Market Share 2025

Figure 30. China Based Manufacturers Air Separation Plant Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Air Separation Plant Production Market Share 2025

Figure 32. World Air Separation Plant Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Air Separation Plant Production Value Market Share by Type in 2025

Figure 34. Below 20 K CMPH

Figure 35. 20-60 K CMPH

Figure 36. Above 60 K CMPH

Figure 37. World Air Separation Plant Production Market Share by Type (2021-2032)

Figure 38. World Air Separation Plant Production Value Market Share by Type (2021-2032)

Figure 39. World Air Separation Plant Average Price by Type (2021-2032) & (USD/CMPH)

Figure 40. World Air Separation Plant Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 41. World Air Separation Plant Production Value Market Share by Application in 2025

Figure 42. Chemical

Figure 43. Industry Gas

Figure 44. Metallurgy Industry

Figure 45. Others

Figure 46. World Air Separation Plant Production Market Share by Application (2021-2032)

Figure 47. World Air Separation Plant Production Value Market Share by Application (2021-2032)

Figure 48. World Air Separation Plant Average Price by Application (2021-2032) & (USD/CMPH)

Figure 49. Air Separation Plant Industry Chain

Figure 50. Air Separation Plant Procurement Model

Figure 51. Air Separation Plant Sales Model

Figure 52. Air Separation Plant Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

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