

Global Helium Recovery and Purification Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Recovery and Purification Equipment market size is expected to reach \$ 1110 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Helium Recovery and Purification Equipment refers to integrated systems used to recover helium from industrial exhaust gas, testing equipment vent gas, cryogenic system boil-off gas, welding shielding gas, semiconductor process gas, or helium-bearing natural gas, and purify it by removing impurities such as nitrogen, oxygen, moisture, hydrogen, methane, and carbon dioxide. Typical process technologies include compression, cooling, adsorption, membrane separation, cryogenic distillation, and catalytic purification. The equipment generally consists of gas collection units, compressors, buffer tanks, pretreatment modules, purification units, monitoring and control systems, and gas storage systems. It is widely used in semiconductors, optical fiber manufacturing, MRI and superconducting magnets, cryogenic research systems, leak detection, aerospace, and specialty welding applications. In 2025, global Helium Recovery and Purification Equipment production reached approximately 2158 Units, with an average global market price of around 326 k USD/Unit. The production capacity for Helium Recovery and Purification Equipment in 2025 was approximately 2500 Units. The typical gross profit margin for Helium Recovery and Purification Equipment between 20% and 40%.

The Helium Recovery and Purification Equipment market is mainly driven by tight global helium supply, helium price volatility, rising demand for high-purity gases, and the expansion of semiconductor, optical fiber, medical imaging, and cryogenic research applications. Since helium is a scarce resource mainly extracted from a limited number of natural gas fields, its supply chain is vulnerable to geopolitical risks, liquefaction plant

outages, logistics constraints, and energy price fluctuations. As a result, end users are increasingly adopting helium recycling and on-site recovery systems to reduce gas consumption and improve supply security. High-end applications such as semiconductor wafer fabrication, optical fiber drawing, MRI servicing, superconducting research facilities, and aerospace testing require high-purity helium and stable gas availability, supporting demand for automated, modular, and high-recovery helium purification systems. In the future, the market is expected to grow steadily as users focus more on helium cost reduction, resource conservation, and supply chain resilience.

This report studies the global Helium Recovery and Purification Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Helium Recovery and Purification Equipment 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 Helium Recovery and Purification Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Helium Recovery and Purification Equipment total production and demand, 2021-2032, (Units)

Global Helium Recovery and Purification Equipment total production value, 2021-2032, (USD Million)

Global Helium Recovery and Purification Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Helium Recovery and Purification Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Helium Recovery and Purification Equipment domestic production, consumption, key domestic manufacturers and share

Global Helium Recovery and Purification Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Helium Recovery and Purification Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Helium Recovery and Purification Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Helium Recovery and Purification Equipment 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 Engineering, Air Liquide, Chart Industries, Bluefors, Quantum Technology, Quantum Design, Taiyo Nippon Sanso, UNISOKU, Zhongke Fuhai Technology, CSSC Pengli (Nanjing) Technology, 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 Helium Recovery and Purification Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) 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 Helium Recovery and Purification Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Recovery and Purification Equipment Market, Segmentation by Type:

Cryogenic Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Global Helium Recovery and Purification Equipment Market, Segmentation by Processing Capacity:

Laboratory Grade

Industrial Grade

Global Helium Recovery and Purification Equipment Market, Segmentation by Equipment Form:

Stationary Type

Mobile Type

Global Helium Recovery and Purification Equipment Market, Segmentation by Application:

Medical Imaging

Semiconductor Manufacturing

Scientific Research & Cryogenic Laboratories

Quantum Computing & Superconducting Technology

Others

Companies Profiled:

Linde Engineering

Air Liquide

Chart Industries

Bluefors

Quantum Technology

Quantum Design

Taiyo Nippon Sanso

UNISOKU

Zhongke Fuhai Technology

CSSC Pengli (Nanjing) Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

1.1 Helium Recovery and Purification Equipment Introduction

1.2 World Helium Recovery and Purification Equipment Supply & Forecast

1.2.1 World Helium Recovery and Purification Equipment Production Value (2021 & 2025 & 2032)

1.2.2 World Helium Recovery and Purification Equipment Production (2021-2032)

1.2.3 World Helium Recovery and Purification Equipment Pricing Trends (2021-2032)

1.3 World Helium Recovery and Purification Equipment Production by Region (Based on Production Site)

1.3.1 World Helium Recovery and Purification Equipment Production Value by Region (2021-2032)

1.3.2 World Helium Recovery and Purification Equipment Production by Region (2021-2032)

1.3.3 World Helium Recovery and Purification Equipment Average Price by Region (2021-2032)

1.3.4 North America Helium Recovery and Purification Equipment Production (2021-2032)

1.3.5 Europe Helium Recovery and Purification Equipment Production (2021-2032)

1.3.6 China Helium Recovery and Purification Equipment Production (2021-2032)

1.3.7 Japan Helium Recovery and Purification Equipment Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Helium Recovery and Purification Equipment Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Helium Recovery and Purification Equipment Major Market Trends

2 DEMAND SUMMARY

2.1 World Helium Recovery and Purification Equipment Demand (2021-2032)

2.2 World Helium Recovery and Purification Equipment Consumption by Region

2.2.1 World Helium Recovery and Purification Equipment Consumption by Region (2021-2026)

2.2.2 World Helium Recovery and Purification Equipment Consumption Forecast by Region (2027-2032)

2.3 United States Helium Recovery and Purification Equipment Consumption (2021-2032)

2.4 China Helium Recovery and Purification Equipment Consumption (2021-2032)

2.5 Europe Helium Recovery and Purification Equipment Consumption (2021-2032)

2.6 Japan Helium Recovery and Purification Equipment Consumption (2021-2032)

2.7 South Korea Helium Recovery and Purification Equipment Consumption
(2021-2032)

2.8 ASEAN Helium Recovery and Purification Equipment Consumption (2021-2032)

2.9 India Helium Recovery and Purification Equipment Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Helium Recovery and Purification Equipment Production Value by
Manufacturer (2021-2026)

3.2 World Helium Recovery and Purification Equipment Production by Manufacturer
(2021-2026)

3.3 World Helium Recovery and Purification Equipment Average Price by Manufacturer
(2021-2026)

3.4 Helium Recovery and Purification Equipment Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Helium Recovery and Purification Equipment Industry Rank of Major
Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Helium Recovery and Purification
Equipment in 2025

3.5.3 Global Concentration Ratios (CR8) for Helium Recovery and Purification
Equipment in 2025

3.6 Helium Recovery and Purification Equipment Market: Overall Company Footprint
Analysis

3.6.1 Helium Recovery and Purification Equipment Market: Region Footprint

3.6.2 Helium Recovery and Purification Equipment Market: Company Product Type
Footprint

3.6.3 Helium Recovery and Purification Equipment 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: Helium Recovery and Purification Equipment Production Value Comparison

4.1.1 United States VS China: Helium Recovery and Purification Equipment Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Helium Recovery and Purification Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Helium Recovery and Purification Equipment Production Comparison

4.2.1 United States VS China: Helium Recovery and Purification Equipment Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Helium Recovery and Purification Equipment Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Helium Recovery and Purification Equipment Consumption Comparison

4.3.1 United States VS China: Helium Recovery and Purification Equipment Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Helium Recovery and Purification Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Helium Recovery and Purification Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Helium Recovery and Purification Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers Helium Recovery and Purification Equipment Production (2021-2026)

4.5 China Based Helium Recovery and Purification Equipment Manufacturers and Market Share

4.5.1 China Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Helium Recovery and Purification Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Helium Recovery and Purification Equipment Production (2021-2026)

4.6 Rest of World Based Helium Recovery and Purification Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Helium Recovery and Purification

Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Helium Recovery and Purification

Equipment Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Helium Recovery and Purification Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cryogenic Distillation

5.2.2 Pressure Swing Adsorption (PSA)

5.2.3 Membrane Separation

5.3 Market Segment by Type

5.3.1 World Helium Recovery and Purification Equipment Production by Type (2021-2032)

5.3.2 World Helium Recovery and Purification Equipment Production Value by Type (2021-2032)

5.3.3 World Helium Recovery and Purification Equipment Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PROCESSING CAPACITY

6.1 World Helium Recovery and Purification Equipment Market Size Overview by Processing Capacity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Processing Capacity

6.2.1 Laboratory Grade

6.2.2 Industrial Grade

6.3 Market Segment by Processing Capacity

6.3.1 World Helium Recovery and Purification Equipment Production by Processing Capacity (2021-2032)

6.3.2 World Helium Recovery and Purification Equipment Production Value by Processing Capacity (2021-2032)

6.3.3 World Helium Recovery and Purification Equipment Average Price by Processing Capacity (2021-2032)

7 MARKET ANALYSIS BY EQUIPMENT FORM

7.1 World Helium Recovery and Purification Equipment Market Size Overview by Equipment Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Equipment Form

7.2.1 Stationary Type

7.2.2 Mobile Type

7.3 Market Segment by Equipment Form

7.3.1 World Helium Recovery and Purification Equipment Production by Equipment Form (2021-2032)

7.3.2 World Helium Recovery and Purification Equipment Production Value by Equipment Form (2021-2032)

7.3.3 World Helium Recovery and Purification Equipment Average Price by Equipment Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Helium Recovery and Purification Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical Imaging

8.2.2 Semiconductor Manufacturing

8.2.3 Scientific Research & Cryogenic Laboratories

8.2.4 Quantum Computing & Superconducting Technology

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Helium Recovery and Purification Equipment Production by Application (2021-2032)

8.3.2 World Helium Recovery and Purification Equipment Production Value by Application (2021-2032)

8.3.3 World Helium Recovery and Purification Equipment Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Linde Engineering

9.1.1 Linde Engineering Details

9.1.2 Linde Engineering Major Business

9.1.3 Linde Engineering Helium Recovery and Purification Equipment Product and Services

9.1.4 Linde Engineering Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Linde Engineering Recent Developments/Updates

- 9.1.6 Linde Engineering Competitive Strengths & Weaknesses
- 9.2 Air Liquide
 - 9.2.1 Air Liquide Details
 - 9.2.2 Air Liquide Major Business
 - 9.2.3 Air Liquide Helium Recovery and Purification Equipment Product and Services
 - 9.2.4 Air Liquide Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Air Liquide Recent Developments/Updates
 - 9.2.6 Air Liquide Competitive Strengths & Weaknesses
- 9.3 Chart Industries
 - 9.3.1 Chart Industries Details
 - 9.3.2 Chart Industries Major Business
 - 9.3.3 Chart Industries Helium Recovery and Purification Equipment Product and Services
 - 9.3.4 Chart Industries Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Chart Industries Recent Developments/Updates
 - 9.3.6 Chart Industries Competitive Strengths & Weaknesses
- 9.4 Bluefors
 - 9.4.1 Bluefors Details
 - 9.4.2 Bluefors Major Business
 - 9.4.3 Bluefors Helium Recovery and Purification Equipment Product and Services
 - 9.4.4 Bluefors Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Bluefors Recent Developments/Updates
 - 9.4.6 Bluefors Competitive Strengths & Weaknesses
- 9.5 Quantum Technology
 - 9.5.1 Quantum Technology Details
 - 9.5.2 Quantum Technology Major Business
 - 9.5.3 Quantum Technology Helium Recovery and Purification Equipment Product and Services
 - 9.5.4 Quantum Technology Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Quantum Technology Recent Developments/Updates
 - 9.5.6 Quantum Technology Competitive Strengths & Weaknesses
- 9.6 Quantum Design
 - 9.6.1 Quantum Design Details
 - 9.6.2 Quantum Design Major Business
 - 9.6.3 Quantum Design Helium Recovery and Purification Equipment Product and

Services

9.6.4 Quantum Design Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Quantum Design Recent Developments/Updates

9.6.6 Quantum Design Competitive Strengths & Weaknesses

9.7 Taiyo Nippon Sanso

9.7.1 Taiyo Nippon Sanso Details

9.7.2 Taiyo Nippon Sanso Major Business

9.7.3 Taiyo Nippon Sanso Helium Recovery and Purification Equipment Product and Services

9.7.4 Taiyo Nippon Sanso Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Taiyo Nippon Sanso Recent Developments/Updates

9.7.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses

9.8 UNISOKU

9.8.1 UNISOKU Details

9.8.2 UNISOKU Major Business

9.8.3 UNISOKU Helium Recovery and Purification Equipment Product and Services

9.8.4 UNISOKU Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 UNISOKU Recent Developments/Updates

9.8.6 UNISOKU Competitive Strengths & Weaknesses

9.9 Zhongke Fuhai Technology

9.9.1 Zhongke Fuhai Technology Details

9.9.2 Zhongke Fuhai Technology Major Business

9.9.3 Zhongke Fuhai Technology Helium Recovery and Purification Equipment Product and Services

9.9.4 Zhongke Fuhai Technology Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Zhongke Fuhai Technology Recent Developments/Updates

9.9.6 Zhongke Fuhai Technology Competitive Strengths & Weaknesses

9.10 CSSC Pengli (Nanjing) Technology

9.10.1 CSSC Pengli (Nanjing) Technology Details

9.10.2 CSSC Pengli (Nanjing) Technology Major Business

9.10.3 CSSC Pengli (Nanjing) Technology Helium Recovery and Purification Equipment Product and Services

9.10.4 CSSC Pengli (Nanjing) Technology Helium Recovery and Purification Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 CSSC Pengli (Nanjing) Technology Recent Developments/Updates

9.10.6 CSSC Pengli (Nanjing) Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Helium Recovery and Purification Equipment Industry Chain

10.2 Helium Recovery and Purification Equipment Upstream Analysis

10.2.1 Helium Recovery and Purification Equipment Core Raw Materials

10.2.2 Main Manufacturers of Helium Recovery and Purification Equipment Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Helium Recovery and Purification Equipment Production Mode

10.6 Helium Recovery and Purification Equipment Procurement Model

10.7 Helium Recovery and Purification Equipment Industry Sales Model and Sales Channels

10.7.1 Helium Recovery and Purification Equipment Sales Model

10.7.2 Helium Recovery and Purification Equipment Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Helium Recovery and Purification Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Helium Recovery and Purification Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World Helium Recovery and Purification Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World Helium Recovery and Purification Equipment Production Value Market Share by Region (2021-2026)

Table 5. World Helium Recovery and Purification Equipment Production Value Market Share by Region (2027-2032)

Table 6. World Helium Recovery and Purification Equipment Production by Region (2021-2026) & (Units)

Table 7. World Helium Recovery and Purification Equipment Production by Region (2027-2032) & (Units)

Table 8. World Helium Recovery and Purification Equipment Production Market Share by Region (2021-2026)

Table 9. World Helium Recovery and Purification Equipment Production Market Share by Region (2027-2032)

Table 10. World Helium Recovery and Purification Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Helium Recovery and Purification Equipment Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Helium Recovery and Purification Equipment Major Market Trends

Table 13. World Helium Recovery and Purification Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Helium Recovery and Purification Equipment Consumption by Region (2021-2026) & (Units)

Table 15. World Helium Recovery and Purification Equipment Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Helium Recovery and Purification Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Helium Recovery and Purification Equipment Producers in 2025

Table 18. World Helium Recovery and Purification Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Helium Recovery and Purification Equipment Producers in 2025

Table 20. World Helium Recovery and Purification Equipment Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Helium Recovery and Purification Equipment Company Evaluation Quadrant

Table 22. World Helium Recovery and Purification Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Helium Recovery and Purification Equipment Production Site of Key Manufacturer

Table 24. Helium Recovery and Purification Equipment Market: Company Product Type Footprint

Table 25. Helium Recovery and Purification Equipment Market: Company Product Application Footprint

Table 26. Helium Recovery and Purification Equipment Competitive Factors

Table 27. Helium Recovery and Purification Equipment New Entrant and Capacity Expansion Plans

Table 28. Helium Recovery and Purification Equipment Mergers & Acquisitions Activity

Table 29. United States VS China Helium Recovery and Purification Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Helium Recovery and Purification Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Helium Recovery and Purification Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Helium Recovery and Purification Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Helium Recovery and Purification Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Helium Recovery and Purification Equipment Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Helium Recovery and Purification Equipment Production Market Share (2021-2026)

Table 37. China Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Helium Recovery and Purification Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Helium Recovery and Purification Equipment

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Helium Recovery and Purification Equipment Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Helium Recovery and Purification Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based Helium Recovery and Purification Equipment Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Helium Recovery and Purification Equipment Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Helium Recovery and Purification Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Helium Recovery and Purification Equipment Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Helium Recovery and Purification Equipment Production Market Share (2021-2026)

Table 47. World Helium Recovery and Purification Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Helium Recovery and Purification Equipment Production by Type (2021-2026) & (Units)

Table 49. World Helium Recovery and Purification Equipment Production by Type (2027-2032) & (Units)

Table 50. World Helium Recovery and Purification Equipment Production Value by Type (2021-2026) & (USD Million)

Table 51. World Helium Recovery and Purification Equipment Production Value by Type (2027-2032) & (USD Million)

Table 52. World Helium Recovery and Purification Equipment Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Helium Recovery and Purification Equipment Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Helium Recovery and Purification Equipment Production Value by Processing Capacity, (USD Million), 2021 & 2025 & 2032

Table 55. World Helium Recovery and Purification Equipment Production by Processing Capacity (2021-2026) & (Units)

Table 56. World Helium Recovery and Purification Equipment Production by Processing Capacity (2027-2032) & (Units)

Table 57. World Helium Recovery and Purification Equipment Production Value by Processing Capacity (2021-2026) & (USD Million)

Table 58. World Helium Recovery and Purification Equipment Production Value by Processing Capacity (2027-2032) & (USD Million)

Table 59. World Helium Recovery and Purification Equipment Average Price by Processing Capacity (2021-2026) & (K US\$/Unit)

Table 60. World Helium Recovery and Purification Equipment Average Price by Processing Capacity (2027-2032) & (K US\$/Unit)

Table 61. World Helium Recovery and Purification Equipment Production Value by Equipment Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Helium Recovery and Purification Equipment Production by Equipment Form (2021-2026) & (Units)

Table 63. World Helium Recovery and Purification Equipment Production by Equipment Form (2027-2032) & (Units)

Table 64. World Helium Recovery and Purification Equipment Production Value by Equipment Form (2021-2026) & (USD Million)

Table 65. World Helium Recovery and Purification Equipment Production Value by Equipment Form (2027-2032) & (USD Million)

Table 66. World Helium Recovery and Purification Equipment Average Price by Equipment Form (2021-2026) & (K US\$/Unit)

Table 67. World Helium Recovery and Purification Equipment Average Price by Equipment Form (2027-2032) & (K US\$/Unit)

Table 68. World Helium Recovery and Purification Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Helium Recovery and Purification Equipment Production by Application (2021-2026) & (Units)

Table 70. World Helium Recovery and Purification Equipment Production by Application (2027-2032) & (Units)

Table 71. World Helium Recovery and Purification Equipment Production Value by Application (2021-2026) & (USD Million)

Table 72. World Helium Recovery and Purification Equipment Production Value by Application (2027-2032) & (USD Million)

Table 73. World Helium Recovery and Purification Equipment Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Helium Recovery and Purification Equipment Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Linde Engineering Basic Information, Manufacturing Base and Competitors

Table 76. Linde Engineering Major Business

Table 77. Linde Engineering Helium Recovery and Purification Equipment Product and Services

Table 78. Linde Engineering Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Linde Engineering Recent Developments/Updates

Table 80. Linde Engineering Competitive Strengths & Weaknesses

Table 81. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 82. Air Liquide Major Business

Table 83. Air Liquide Helium Recovery and Purification Equipment Product and Services

Table 84. Air Liquide Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Air Liquide Recent Developments/Updates

Table 86. Air Liquide Competitive Strengths & Weaknesses

Table 87. Chart Industries Basic Information, Manufacturing Base and Competitors

Table 88. Chart Industries Major Business

Table 89. Chart Industries Helium Recovery and Purification Equipment Product and Services

Table 90. Chart Industries Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Chart Industries Recent Developments/Updates

Table 92. Chart Industries Competitive Strengths & Weaknesses

Table 93. Bluefors Basic Information, Manufacturing Base and Competitors

Table 94. Bluefors Major Business

Table 95. Bluefors Helium Recovery and Purification Equipment Product and Services

Table 96. Bluefors Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Bluefors Recent Developments/Updates

Table 98. Bluefors Competitive Strengths & Weaknesses

Table 99. Quantum Technology Basic Information, Manufacturing Base and Competitors

Table 100. Quantum Technology Major Business

Table 101. Quantum Technology Helium Recovery and Purification Equipment Product and Services

Table 102. Quantum Technology Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Quantum Technology Recent Developments/Updates

Table 104. Quantum Technology Competitive Strengths & Weaknesses

Table 105. Quantum Design Basic Information, Manufacturing Base and Competitors

Table 106. Quantum Design Major Business
Table 107. Quantum Design Helium Recovery and Purification Equipment Product and Services
Table 108. Quantum Design Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Quantum Design Recent Developments/Updates
Table 110. Quantum Design Competitive Strengths & Weaknesses
Table 111. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors
Table 112. Taiyo Nippon Sanso Major Business
Table 113. Taiyo Nippon Sanso Helium Recovery and Purification Equipment Product and Services
Table 114. Taiyo Nippon Sanso Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Taiyo Nippon Sanso Recent Developments/Updates
Table 116. Taiyo Nippon Sanso Competitive Strengths & Weaknesses
Table 117. UNISOKU Basic Information, Manufacturing Base and Competitors
Table 118. UNISOKU Major Business
Table 119. UNISOKU Helium Recovery and Purification Equipment Product and Services
Table 120. UNISOKU Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. UNISOKU Recent Developments/Updates
Table 122. UNISOKU Competitive Strengths & Weaknesses
Table 123. Zhongke Fuhai Technology Basic Information, Manufacturing Base and Competitors
Table 124. Zhongke Fuhai Technology Major Business
Table 125. Zhongke Fuhai Technology Helium Recovery and Purification Equipment Product and Services
Table 126. Zhongke Fuhai Technology Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Zhongke Fuhai Technology Recent Developments/Updates
Table 128. Zhongke Fuhai Technology Competitive Strengths & Weaknesses
Table 129. CSSC Pengli (Nanjing) Technology Basic Information, Manufacturing Base and Competitors

Table 130. CSSC Pengli (Nanjing) Technology Major Business

Table 131. CSSC Pengli (Nanjing) Technology Helium Recovery and Purification Equipment Product and Services

Table 132. CSSC Pengli (Nanjing) Technology Helium Recovery and Purification Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. CSSC Pengli (Nanjing) Technology Recent Developments/Updates

Table 134. CSSC Pengli (Nanjing) Technology Competitive Strengths & Weaknesses

Table 135. Global Key Players of Helium Recovery and Purification Equipment Upstream (Raw Materials)

Table 136. Global Helium Recovery and Purification Equipment Typical Customers

Table 137. Helium Recovery and Purification Equipment Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Helium Recovery and Purification Equipment Picture

Figure 2. World Helium Recovery and Purification Equipment Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Helium Recovery and Purification Equipment Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Helium Recovery and Purification Equipment Production (2021-2032) & (Units)

Figure 5. World Helium Recovery and Purification Equipment Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Helium Recovery and Purification Equipment Production Value Market Share by Region (2021-2032)

Figure 7. World Helium Recovery and Purification Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Helium Recovery and Purification Equipment Production (2021-2032) & (Units)

Figure 9. Europe Helium Recovery and Purification Equipment Production (2021-2032) & (Units)

Figure 10. China Helium Recovery and Purification Equipment Production (2021-2032) & (Units)

Figure 11. Japan Helium Recovery and Purification Equipment Production (2021-2032) & (Units)

Figure 12. Helium Recovery and Purification Equipment Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 15. World Helium Recovery and Purification Equipment Consumption Market Share by Region (2021-2032)

Figure 16. United States Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 17. China Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 18. Europe Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 19. Japan Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 20. South Korea Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 21. ASEAN Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 22. India Helium Recovery and Purification Equipment Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Helium Recovery and Purification Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Helium Recovery and Purification Equipment Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Helium Recovery and Purification Equipment Markets in 2025

Figure 26. United States VS China: Helium Recovery and Purification Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Helium Recovery and Purification Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Helium Recovery and Purification Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Helium Recovery and Purification Equipment Production Market Share 2025

Figure 30. China Based Manufacturers Helium Recovery and Purification Equipment Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Helium Recovery and Purification Equipment Production Market Share 2025

Figure 32. World Helium Recovery and Purification Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Helium Recovery and Purification Equipment Production Value Market Share by Type in 2025

Figure 34. Cryogenic Distillation

Figure 35. Pressure Swing Adsorption (PSA)

Figure 36. Membrane Separation

Figure 37. World Helium Recovery and Purification Equipment Production Market Share by Type (2021-2032)

Figure 38. World Helium Recovery and Purification Equipment Production Value Market Share by Type (2021-2032)

Figure 39. World Helium Recovery and Purification Equipment Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World Helium Recovery and Purification Equipment Production Value by Processing Capacity, (USD Million), 2021 & 2025 & 2032

Figure 41. World Helium Recovery and Purification Equipment Production Value Market Share by Processing Capacity in 2025

Figure 42. Laboratory Grade

Figure 43. Industrial Grade

Figure 44. World Helium Recovery and Purification Equipment Production Market Share by Processing Capacity (2021-2032)

Figure 45. World Helium Recovery and Purification Equipment Production Value Market Share by Processing Capacity (2021-2032)

Figure 46. World Helium Recovery and Purification Equipment Average Price by Processing Capacity (2021-2032) & (K US\$/Unit)

Figure 47. World Helium Recovery and Purification Equipment Production Value by Equipment Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Helium Recovery and Purification Equipment Production Value Market Share by Equipment Form in 2025

Figure 49. Stationary Type

Figure 50. Mobile Type

Figure 51. World Helium Recovery and Purification Equipment Production Market Share by Equipment Form (2021-2032)

Figure 52. World Helium Recovery and Purification Equipment Production Value Market Share by Equipment Form (2021-2032)

Figure 53. World Helium Recovery and Purification Equipment Average Price by Equipment Form (2021-2032) & (K US\$/Unit)

Figure 54. World Helium Recovery and Purification Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Helium Recovery and Purification Equipment Production Value Market Share by Application in 2025

Figure 56. Medical Imaging

Figure 57. Semiconductor Manufacturing

Figure 58. Scientific Research & Cryogenic Laboratories

Figure 59. Quantum Computing & Superconducting Technology

Figure 60. Others

Figure 61. World Helium Recovery and Purification Equipment Production Market Share by Application (2021-2032)

Figure 62. World Helium Recovery and Purification Equipment Production Value Market Share by Application (2021-2032)

Figure 63. World Helium Recovery and Purification Equipment Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. Helium Recovery and Purification Equipment Industry Chain

Figure 65. Helium Recovery and Purification Equipment Procurement Model

Figure 66. Helium Recovery and Purification Equipment Sales Model

Figure 67. Helium Recovery and Purification Equipment Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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