

Global Helium Refrigeration System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Refrigeration System market size is expected to reach \$ 371 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

A Helium Refrigeration System is a cryogenic cooling system that uses helium gas or liquid helium as the working medium to generate extremely low temperatures, typically ranging from around 20 K down to 4.5 K, 2 K, or even below 1 K in advanced systems. Because helium remains gaseous at very low temperatures and has excellent thermodynamic properties, it is widely used for cooling superconducting magnets, fusion reactors, particle accelerators, MRI systems, quantum computers, semiconductor equipment, and other large scientific or industrial systems that require ultra-low temperatures. A helium refrigeration system usually includes compressors, heat exchangers, expansion turbines, cold boxes, helium storage tanks, purification units, and recovery systems. Depending on the design, it can function as a helium refrigerator, a helium liquefier, or an integrated refrigeration and liquefaction system. Large-scale helium refrigeration systems are essential in projects such as fusion reactors, CERN accelerators, synchrotron facilities, and superconducting research infrastructure because they can provide stable cooling for superconducting components and cryogenic equipment. In 2025, global Helium Refrigeration System production reached approximately 902 units, with an average global market price of around 250 k USD/unit. The production capacity for Helium Refrigeration System in 2025 was approximately 1000 units. The typical gross profit margin for Helium Refrigeration System between 20% and 40%.

The Helium Refrigeration System market is driven by growing demand for advanced scientific research facilities, superconducting technologies, medical imaging, and fusion

energy development. The market encompasses suppliers of large-scale cryogenic equipment, components, and services for installation, maintenance, and upgrade. North America, Europe, and Asia-Pacific are key regions due to the presence of major research laboratories, nuclear fusion projects, and high-end medical infrastructure. Market growth is supported by investments in superconducting magnets, quantum computing research, and next-generation particle accelerators.

This report studies the global Helium Refrigeration System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helium Refrigeration System total production and demand, 2021-2032, (Units)

Global Helium Refrigeration System total production value, 2021-2032, (USD Million)

Global Helium Refrigeration System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Helium Refrigeration System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Helium Refrigeration System domestic production, consumption, key domestic manufacturers and share

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

Global Helium Refrigeration System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Helium Refrigeration System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Helium Refrigeration System 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 Products, Chart Industries, Sumitomo Heavy Industries, Henan Zhongke Qingneng Technology, Zhongke Fuhai 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 Refrigeration System 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 Refrigeration System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Refrigeration System Market, Segmentation by Type:

Helium Refrigerator

Helium Liquefier

Others

Global Helium Refrigeration System Market, Segmentation by Cooling Capacity:

Below 2kW @ 4.5K

2–10kW @ 4.5K

Above 10kW @ 4.5K

Global Helium Refrigeration System Market, Segmentation by Application:

Nuclear Industry

Semiconductor Manufacturing

Medical Imaging

Aerospace & Defense

Others

Companies Profiled:

Linde

Air Products

Chart Industries

Sumitomo Heavy Industries

Henan Zhongke Qingneng Technology

Zhongke Fuhai Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Helium Refrigeration System Production Value by Manufacturer (2021-2026)
- 3.2 World Helium Refrigeration System Production by Manufacturer (2021-2026)
- 3.3 World Helium Refrigeration System Average Price by Manufacturer (2021-2026)
- 3.4 Helium Refrigeration System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Helium Refrigeration System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Helium Refrigeration System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Helium Refrigeration System in 2025
- 3.6 Helium Refrigeration System Market: Overall Company Footprint Analysis
 - 3.6.1 Helium Refrigeration System Market: Region Footprint
 - 3.6.2 Helium Refrigeration System Market: Company Product Type Footprint
 - 3.6.3 Helium Refrigeration System 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 Refrigeration System Production Value Comparison
 - 4.1.1 United States VS China: Helium Refrigeration System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Helium Refrigeration System Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Helium Refrigeration System Production Comparison
 - 4.2.1 United States VS China: Helium Refrigeration System Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Helium Refrigeration System Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Helium Refrigeration System Consumption Comparison
 - 4.3.1 United States VS China: Helium Refrigeration System Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Helium Refrigeration System Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Helium Refrigeration System Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Helium Refrigeration System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Helium Refrigeration System Production (2021-2026)

4.5 China Based Helium Refrigeration System Manufacturers and Market Share

4.5.1 China Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Helium Refrigeration System Production Value (2021-2026)

4.5.3 China Based Manufacturers Helium Refrigeration System Production (2021-2026)

4.6 Rest of World Based Helium Refrigeration System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Helium Refrigeration System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Helium Refrigeration System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Helium Refrigeration System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Helium Refrigerator

5.2.2 Helium Liquefier

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Helium Refrigeration System Production by Type (2021-2032)

5.3.2 World Helium Refrigeration System Production Value by Type (2021-2032)

5.3.3 World Helium Refrigeration System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COOLING CAPACITY

6.1 World Helium Refrigeration System Market Size Overview by Cooling Capacity:

2021 VS 2025 VS 2032

6.2 Segment Introduction by Cooling Capacity

6.2.1 Below 2kW 6.2.2 2–10kW 6.2.3 Above 10kW 6.3 Market Segment by Cooling Capacity

6.3.1 World Helium Refrigeration System Production by Cooling Capacity (2021-2032)

6.3.2 World Helium Refrigeration System Production Value by Cooling Capacity (2021-2032)

6.3.3 World Helium Refrigeration System Average Price by Cooling Capacity (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Helium Refrigeration System Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Nuclear Industry

7.2.2 Semiconductor Manufacturing

7.2.3 Medical Imaging

7.2.4 Aerospace & Defense

7.2.5 Others

7.3 Market Segment by Application

7.3.1 World Helium Refrigeration System Production by Application (2021-2032)

7.3.2 World Helium Refrigeration System Production Value by Application (2021-2032)

7.3.3 World Helium Refrigeration System Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Linde

8.1.1 Linde Details

8.1.2 Linde Major Business

8.1.3 Linde Helium Refrigeration System Product and Services

8.1.4 Linde Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Linde Recent Developments/Updates

8.1.6 Linde Competitive Strengths & Weaknesses

8.2 Air Products

8.2.1 Air Products Details

8.2.2 Air Products Major Business

8.2.3 Air Products Helium Refrigeration System Product and Services

- 8.2.4 Air Products Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Air Products Recent Developments/Updates
- 8.2.6 Air Products Competitive Strengths & Weaknesses
- 8.3 Chart Industries
 - 8.3.1 Chart Industries Details
 - 8.3.2 Chart Industries Major Business
 - 8.3.3 Chart Industries Helium Refrigeration System Product and Services
 - 8.3.4 Chart Industries Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Chart Industries Recent Developments/Updates
 - 8.3.6 Chart Industries Competitive Strengths & Weaknesses
- 8.4 Sumitomo Heavy Industries
 - 8.4.1 Sumitomo Heavy Industries Details
 - 8.4.2 Sumitomo Heavy Industries Major Business
 - 8.4.3 Sumitomo Heavy Industries Helium Refrigeration System Product and Services
 - 8.4.4 Sumitomo Heavy Industries Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Sumitomo Heavy Industries Recent Developments/Updates
 - 8.4.6 Sumitomo Heavy Industries Competitive Strengths & Weaknesses
- 8.5 Henan Zhongke Qingneng Technology
 - 8.5.1 Henan Zhongke Qingneng Technology Details
 - 8.5.2 Henan Zhongke Qingneng Technology Major Business
 - 8.5.3 Henan Zhongke Qingneng Technology Helium Refrigeration System Product and Services
 - 8.5.4 Henan Zhongke Qingneng Technology Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Henan Zhongke Qingneng Technology Recent Developments/Updates
 - 8.5.6 Henan Zhongke Qingneng Technology Competitive Strengths & Weaknesses
- 8.6 Zhongke Fuhai Technology
 - 8.6.1 Zhongke Fuhai Technology Details
 - 8.6.2 Zhongke Fuhai Technology Major Business
 - 8.6.3 Zhongke Fuhai Technology Helium Refrigeration System Product and Services
 - 8.6.4 Zhongke Fuhai Technology Helium Refrigeration System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Zhongke Fuhai Technology Recent Developments/Updates
 - 8.6.6 Zhongke Fuhai Technology Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Helium Refrigeration System Industry Chain
- 9.2 Helium Refrigeration System Upstream Analysis
 - 9.2.1 Helium Refrigeration System Core Raw Materials
 - 9.2.2 Main Manufacturers of Helium Refrigeration System Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Helium Refrigeration System Production Mode
- 9.6 Helium Refrigeration System Procurement Model
- 9.7 Helium Refrigeration System Industry Sales Model and Sales Channels
 - 9.7.1 Helium Refrigeration System Sales Model
 - 9.7.2 Helium Refrigeration System Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Helium Refrigeration System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Helium Refrigeration System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Helium Refrigeration System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Helium Refrigeration System Production Value Market Share by Region (2021-2026)

Table 5. World Helium Refrigeration System Production Value Market Share by Region (2027-2032)

Table 6. World Helium Refrigeration System Production by Region (2021-2026) & (Units)

Table 7. World Helium Refrigeration System Production by Region (2027-2032) & (Units)

Table 8. World Helium Refrigeration System Production Market Share by Region (2021-2026)

Table 9. World Helium Refrigeration System Production Market Share by Region (2027-2032)

Table 10. World Helium Refrigeration System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Helium Refrigeration System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Helium Refrigeration System Major Market Trends

Table 13. World Helium Refrigeration System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Helium Refrigeration System Consumption by Region (2021-2026) & (Units)

Table 15. World Helium Refrigeration System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Helium Refrigeration System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Helium Refrigeration System Producers in 2025

Table 18. World Helium Refrigeration System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Helium Refrigeration System Producers in 2025

Table 20. World Helium Refrigeration System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Helium Refrigeration System Company Evaluation Quadrant

Table 22. World Helium Refrigeration System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Helium Refrigeration System Production Site of Key Manufacturer

Table 24. Helium Refrigeration System Market: Company Product Type Footprint

Table 25. Helium Refrigeration System Market: Company Product Application Footprint

Table 26. Helium Refrigeration System Competitive Factors

Table 27. Helium Refrigeration System New Entrant and Capacity Expansion Plans

Table 28. Helium Refrigeration System Mergers & Acquisitions Activity

Table 29. United States VS China Helium Refrigeration System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Helium Refrigeration System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Helium Refrigeration System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Helium Refrigeration System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Helium Refrigeration System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Helium Refrigeration System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Helium Refrigeration System Production Market Share (2021-2026)

Table 37. China Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Helium Refrigeration System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Helium Refrigeration System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Helium Refrigeration System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Helium Refrigeration System Production Market

Share (2021-2026)

Table 42. Rest of World Based Helium Refrigeration System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Helium Refrigeration System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Helium Refrigeration System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Helium Refrigeration System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Helium Refrigeration System Production Market Share (2021-2026)

Table 47. World Helium Refrigeration System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Helium Refrigeration System Production by Type (2021-2026) & (Units)

Table 49. World Helium Refrigeration System Production by Type (2027-2032) & (Units)

Table 50. World Helium Refrigeration System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Helium Refrigeration System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Helium Refrigeration System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Helium Refrigeration System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Helium Refrigeration System Production Value by Cooling Capacity, (USD Million), 2021 & 2025 & 2032

Table 55. World Helium Refrigeration System Production by Cooling Capacity (2021-2026) & (Units)

Table 56. World Helium Refrigeration System Production by Cooling Capacity (2027-2032) & (Units)

Table 57. World Helium Refrigeration System Production Value by Cooling Capacity (2021-2026) & (USD Million)

Table 58. World Helium Refrigeration System Production Value by Cooling Capacity (2027-2032) & (USD Million)

Table 59. World Helium Refrigeration System Average Price by Cooling Capacity (2021-2026) & (K US\$/Unit)

Table 60. World Helium Refrigeration System Average Price by Cooling Capacity (2027-2032) & (K US\$/Unit)

Table 61. World Helium Refrigeration System Production Value by Application, (USD Million), 2021 & 2025 & 2032

- Table 62. World Helium Refrigeration System Production by Application (2021-2026) & (Units)
- Table 63. World Helium Refrigeration System Production by Application (2027-2032) & (Units)
- Table 64. World Helium Refrigeration System Production Value by Application (2021-2026) & (USD Million)
- Table 65. World Helium Refrigeration System Production Value by Application (2027-2032) & (USD Million)
- Table 66. World Helium Refrigeration System Average Price by Application (2021-2026) & (K US\$/Unit)
- Table 67. World Helium Refrigeration System Average Price by Application (2027-2032) & (K US\$/Unit)
- Table 68. Linde Basic Information, Manufacturing Base and Competitors
- Table 69. Linde Major Business
- Table 70. Linde Helium Refrigeration System Product and Services
- Table 71. Linde Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 72. Linde Recent Developments/Updates
- Table 73. Linde Competitive Strengths & Weaknesses
- Table 74. Air Products Basic Information, Manufacturing Base and Competitors
- Table 75. Air Products Major Business
- Table 76. Air Products Helium Refrigeration System Product and Services
- Table 77. Air Products Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. Air Products Recent Developments/Updates
- Table 79. Air Products Competitive Strengths & Weaknesses
- Table 80. Chart Industries Basic Information, Manufacturing Base and Competitors
- Table 81. Chart Industries Major Business
- Table 82. Chart Industries Helium Refrigeration System Product and Services
- Table 83. Chart Industries Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. Chart Industries Recent Developments/Updates
- Table 85. Chart Industries Competitive Strengths & Weaknesses
- Table 86. Sumitomo Heavy Industries Basic Information, Manufacturing Base and Competitors
- Table 87. Sumitomo Heavy Industries Major Business
- Table 88. Sumitomo Heavy Industries Helium Refrigeration System Product and

Services

Table 89. Sumitomo Heavy Industries Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Sumitomo Heavy Industries Recent Developments/Updates

Table 91. Sumitomo Heavy Industries Competitive Strengths & Weaknesses

Table 92. Henan Zhongke Qingneng Technology Basic Information, Manufacturing Base and Competitors

Table 93. Henan Zhongke Qingneng Technology Major Business

Table 94. Henan Zhongke Qingneng Technology Helium Refrigeration System Product and Services

Table 95. Henan Zhongke Qingneng Technology Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Henan Zhongke Qingneng Technology Recent Developments/Updates

Table 97. Henan Zhongke Qingneng Technology Competitive Strengths & Weaknesses

Table 98. Zhongke Fuhai Technology Basic Information, Manufacturing Base and Competitors

Table 99. Zhongke Fuhai Technology Major Business

Table 100. Zhongke Fuhai Technology Helium Refrigeration System Product and Services

Table 101. Zhongke Fuhai Technology Helium Refrigeration System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Zhongke Fuhai Technology Recent Developments/Updates

Table 103. Zhongke Fuhai Technology Competitive Strengths & Weaknesses

Table 104. Global Key Players of Helium Refrigeration System Upstream (Raw Materials)

Table 105. Global Helium Refrigeration System Typical Customers

Table 106. Helium Refrigeration System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Helium Refrigeration System Picture

Figure 2. World Helium Refrigeration System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Helium Refrigeration System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Helium Refrigeration System Production (2021-2032) & (Units)

Figure 5. World Helium Refrigeration System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Helium Refrigeration System Production Value Market Share by Region (2021-2032)

Figure 7. World Helium Refrigeration System Production Market Share by Region (2021-2032)

Figure 8. North America Helium Refrigeration System Production (2021-2032) & (Units)

Figure 9. Europe Helium Refrigeration System Production (2021-2032) & (Units)

Figure 10. China Helium Refrigeration System Production (2021-2032) & (Units)

Figure 11. Japan Helium Refrigeration System Production (2021-2032) & (Units)

Figure 12. Helium Refrigeration System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 15. World Helium Refrigeration System Consumption Market Share by Region (2021-2032)

Figure 16. United States Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 17. China Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 18. Europe Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 19. Japan Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 20. South Korea Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 21. ASEAN Helium Refrigeration System Consumption (2021-2032) & (Units)

Figure 22. India Helium Refrigeration System Consumption (2021-2032) & (Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for Helium Refrigeration System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Helium Refrigeration System Markets in 2025

Figure 26. United States VS China: Helium Refrigeration System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Helium Refrigeration System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Helium Refrigeration System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Helium Refrigeration System Production Market Share 2025

Figure 30. China Based Manufacturers Helium Refrigeration System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Helium Refrigeration System Production Market Share 2025

Figure 32. World Helium Refrigeration System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Helium Refrigeration System Production Value Market Share by Type in 2025

Figure 34. Helium Refrigerator

Figure 35. Helium Liquefier

Figure 36. Others

Figure 37. World Helium Refrigeration System Production Market Share by Type (2021-2032)

Figure 38. World Helium Refrigeration System Production Value Market Share by Type (2021-2032)

Figure 39. World Helium Refrigeration System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World Helium Refrigeration System Production Value by Cooling Capacity, (USD Million), 2021 & 2025 & 2032

Figure 41. World Helium Refrigeration System Production Value Market Share by Cooling Capacity in 2025

Figure 42. Below 2kW @ 4.5K

Figure 43. 2–10kW @ 4.5K

Figure 44. Above 10kW @ 4.5K

Figure 45. World Helium Refrigeration System Production Market Share by Cooling Capacity (2021-2032)

Figure 46. World Helium Refrigeration System Production Value Market Share by Cooling Capacity (2021-2032)

Figure 47. World Helium Refrigeration System Average Price by Cooling Capacity (2021-2032) & (K US\$/Unit)

Figure 48. World Helium Refrigeration System Production Value by Application, (USD

Million), 2021 & 2025 & 2032

Figure 49. World Helium Refrigeration System Production Value Market Share by Application in 2025

Figure 50. Nuclear Industry

Figure 51. Semiconductor Manufacturing

Figure 52. Medical Imaging

Figure 53. Aerospace & Defense

Figure 54. Others

Figure 55. World Helium Refrigeration System Production Market Share by Application (2021-2032)

Figure 56. World Helium Refrigeration System Production Value Market Share by Application (2021-2032)

Figure 57. World Helium Refrigeration System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 58. Helium Refrigeration System Industry Chain

Figure 59. Helium Refrigeration System Procurement Model

Figure 60. Helium Refrigeration System Sales Model

Figure 61. Helium Refrigeration System Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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