

# Global Liquid Hydrogen Refrigeration Unit Supply, Demand and Key Producers, 2024-2030

https://marketpublishers.com/r/G33B308A1AB2EN.html

Date: March 2024

Pages: 133

Price: US\$ 4,480.00 (Single User License)

ID: G33B308A1AB2EN

# **Abstracts**

The global Liquid Hydrogen Refrigeration Unit market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

Liquid Hydrogen Refrigeration Unit refers to a hydrogen liquefaction unit, which plays an important role in cooling and condensing hydrogen into liquid form.

This report studies the global Liquid Hydrogen Refrigeration Unit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Hydrogen Refrigeration Unit, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid Hydrogen Refrigeration Unit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Hydrogen Refrigeration Unit total production and demand, 2019-2030, (K Units)

Global Liquid Hydrogen Refrigeration Unit total production value, 2019-2030, (USD Million)

Global Liquid Hydrogen Refrigeration Unit production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Units)



Global Liquid Hydrogen Refrigeration Unit consumption by region & country, CAGR, 2019-2030 & (K Units)

U.S. VS China: Liquid Hydrogen Refrigeration Unit domestic production, consumption, key domestic manufacturers and share

Global Liquid Hydrogen Refrigeration Unit production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Units)

Global Liquid Hydrogen Refrigeration Unit production by Type, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Liquid Hydrogen Refrigeration Unit production by Application production, value, CAGR, 2019-2030, (USD Million) & (K Units).

This reports profiles key players in the global Liquid Hydrogen Refrigeration Unit 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 Air Liquide SA, Kawasaki, Plug Power Inc., Chart Industries, HYLIUM INDUSTRIES INC, AFCryo, Engie, Quantum Technology and Demaco Cryogenics, 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 Liquid Hydrogen Refrigeration Unit market.

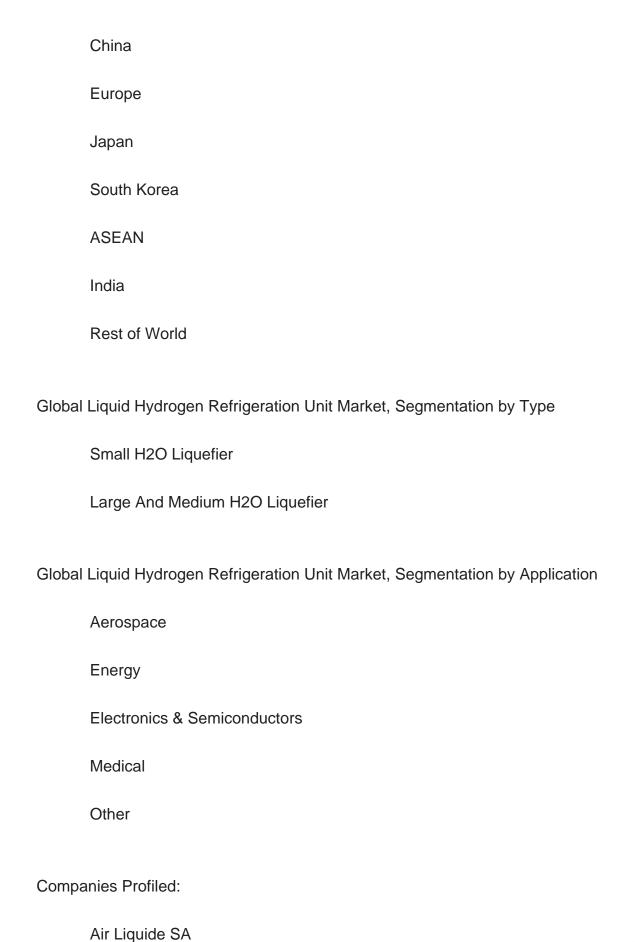
## **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Liquid Hydrogen Refrigeration Unit Market, By Region:

**United States** 







Kawasaki

	Plug Power Inc.		
	Chart Industries		
	HYLIUM INDUSTRIES INC		
	AFCryo		
	Engie		
	Quantum Technology		
	Demaco Cryogenics		
	Iwatani Corporation.		
	Cryogenmash		
	Beijing Sinoscience Fullcryo Technology Co., Ltd.		
	Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd.		
Q	Questions Answered		

- Key (
- 1. How big is the global Liquid Hydrogen Refrigeration Unit market?
- 2. What is the demand of the global Liquid Hydrogen Refrigeration Unit market?
- 3. What is the year over year growth of the global Liquid Hydrogen Refrigeration Unit market?
- 4. What is the production and production value of the global Liquid Hydrogen Refrigeration Unit market?
- 5. Who are the key producers in the global Liquid Hydrogen Refrigeration Unit market?



# **Contents**

#### 1 SUPPLY SUMMARY

- 1.1 Liquid Hydrogen Refrigeration Unit Introduction
- 1.2 World Liquid Hydrogen Refrigeration Unit Supply & Forecast
- 1.2.1 World Liquid Hydrogen Refrigeration Unit Production Value (2019 & 2023 & 2030)
  - 1.2.2 World Liquid Hydrogen Refrigeration Unit Production (2019-2030)
  - 1.2.3 World Liquid Hydrogen Refrigeration Unit Pricing Trends (2019-2030)
- 1.3 World Liquid Hydrogen Refrigeration Unit Production by Region (Based on Production Site)
- 1.3.1 World Liquid Hydrogen Refrigeration Unit Production Value by Region (2019-2030)
  - 1.3.2 World Liquid Hydrogen Refrigeration Unit Production by Region (2019-2030)
  - 1.3.3 World Liquid Hydrogen Refrigeration Unit Average Price by Region (2019-2030)
  - 1.3.4 North America Liquid Hydrogen Refrigeration Unit Production (2019-2030)
  - 1.3.5 Europe Liquid Hydrogen Refrigeration Unit Production (2019-2030)
  - 1.3.6 China Liquid Hydrogen Refrigeration Unit Production (2019-2030)
  - 1.3.7 Japan Liquid Hydrogen Refrigeration Unit Production (2019-2030)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Liquid Hydrogen Refrigeration Unit Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Liquid Hydrogen Refrigeration Unit Major Market Trends

#### **2 DEMAND SUMMARY**

- 2.1 World Liquid Hydrogen Refrigeration Unit Demand (2019-2030)
- 2.2 World Liquid Hydrogen Refrigeration Unit Consumption by Region
  - 2.2.1 World Liquid Hydrogen Refrigeration Unit Consumption by Region (2019-2024)
- 2.2.2 World Liquid Hydrogen Refrigeration Unit Consumption Forecast by Region (2025-2030)
- 2.3 United States Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.4 China Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.5 Europe Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.6 Japan Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.7 South Korea Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.8 ASEAN Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)
- 2.9 India Liquid Hydrogen Refrigeration Unit Consumption (2019-2030)



# 3 WORLD LIQUID HYDROGEN REFRIGERATION UNIT MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Liquid Hydrogen Refrigeration Unit Production Value by Manufacturer (2019-2024)
- 3.2 World Liquid Hydrogen Refrigeration Unit Production by Manufacturer (2019-2024)
- 3.3 World Liquid Hydrogen Refrigeration Unit Average Price by Manufacturer (2019-2024)
- 3.4 Liquid Hydrogen Refrigeration Unit Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Liquid Hydrogen Refrigeration Unit Industry Rank of Major Manufacturers
- 3.5.2 Global Concentration Ratios (CR4) for Liquid Hydrogen Refrigeration Unit in 2023
- 3.5.3 Global Concentration Ratios (CR8) for Liquid Hydrogen Refrigeration Unit in 2023
- 3.6 Liquid Hydrogen Refrigeration Unit Market: Overall Company Footprint Analysis
  - 3.6.1 Liquid Hydrogen Refrigeration Unit Market: Region Footprint
  - 3.6.2 Liquid Hydrogen Refrigeration Unit Market: Company Product Type Footprint
- 3.6.3 Liquid Hydrogen Refrigeration Unit 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: Liquid Hydrogen Refrigeration Unit Production Value Comparison
- 4.1.1 United States VS China: Liquid Hydrogen Refrigeration Unit Production Value Comparison (2019 & 2023 & 2030)
- 4.1.2 United States VS China: Liquid Hydrogen Refrigeration Unit Production Value Market Share Comparison (2019 & 2023 & 2030)
- 4.2 United States VS China: Liquid Hydrogen Refrigeration Unit Production Comparison
- 4.2.1 United States VS China: Liquid Hydrogen Refrigeration Unit Production Comparison (2019 & 2023 & 2030)



- 4.2.2 United States VS China: Liquid Hydrogen Refrigeration Unit Production Market Share Comparison (2019 & 2023 & 2030)
- 4.3 United States VS China: Liquid Hydrogen Refrigeration Unit Consumption Comparison
- 4.3.1 United States VS China: Liquid Hydrogen Refrigeration Unit Consumption Comparison (2019 & 2023 & 2030)
- 4.3.2 United States VS China: Liquid Hydrogen Refrigeration Unit Consumption Market Share Comparison (2019 & 2023 & 2030)
- 4.4 United States Based Liquid Hydrogen Refrigeration Unit Manufacturers and Market Share, 2019-2024
- 4.4.1 United States Based Liquid Hydrogen Refrigeration Unit Manufacturers, Headquarters and Production Site (States, Country)
- 4.4.2 United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value (2019-2024)
- 4.4.3 United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production (2019-2024)
- 4.5 China Based Liquid Hydrogen Refrigeration Unit Manufacturers and Market Share
- 4.5.1 China Based Liquid Hydrogen Refrigeration Unit Manufacturers, Headquarters and Production Site (Province, Country)
- 4.5.2 China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value (2019-2024)
- 4.5.3 China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production (2019-2024)
- 4.6 Rest of World Based Liquid Hydrogen Refrigeration Unit Manufacturers and Market Share, 2019-2024
- 4.6.1 Rest of World Based Liquid Hydrogen Refrigeration Unit Manufacturers, Headquarters and Production Site (State, Country)
- 4.6.2 Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value (2019-2024)
- 4.6.3 Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production (2019-2024)

# **5 MARKET ANALYSIS BY TYPE**

- 5.1 World Liquid Hydrogen Refrigeration Unit Market Size Overview by Type: 2019 VS 2023 VS 2030
- 5.2 Segment Introduction by Type
  - 5.2.1 Small H2O Liquefier
  - 5.2.2 Large And Medium H2O Liquefier



- 5.3 Market Segment by Type
  - 5.3.1 World Liquid Hydrogen Refrigeration Unit Production by Type (2019-2030)
  - 5.3.2 World Liquid Hydrogen Refrigeration Unit Production Value by Type (2019-2030)
  - 5.3.3 World Liquid Hydrogen Refrigeration Unit Average Price by Type (2019-2030)

# **6 MARKET ANALYSIS BY APPLICATION**

- 6.1 World Liquid Hydrogen Refrigeration Unit Market Size Overview by Application:
- 2019 VS 2023 VS 2030
- 6.2 Segment Introduction by Application
  - 6.2.1 Aerospace
  - 6.2.2 Energy
  - 6.2.3 Electronics & Semiconductors
  - 6.2.4 Medical
  - 6.2.5 Other
- 6.3 Market Segment by Application
  - 6.3.1 World Liquid Hydrogen Refrigeration Unit Production by Application (2019-2030)
- 6.3.2 World Liquid Hydrogen Refrigeration Unit Production Value by Application (2019-2030)
- 6.3.3 World Liquid Hydrogen Refrigeration Unit Average Price by Application (2019-2030)

#### **7 COMPANY PROFILES**

- 7.1 Air Liquide SA
  - 7.1.1 Air Liquide SA Details
  - 7.1.2 Air Liquide SA Major Business
  - 7.1.3 Air Liquide SA Liquid Hydrogen Refrigeration Unit Product and Services
  - 7.1.4 Air Liquide SA Liquid Hydrogen Refrigeration Unit Production, Price, Value,

Gross Margin and Market Share (2019-2024)

- 7.1.5 Air Liquide SA Recent Developments/Updates
- 7.1.6 Air Liquide SA Competitive Strengths & Weaknesses
- 7.2 Kawasaki
  - 7.2.1 Kawasaki Details
  - 7.2.2 Kawasaki Major Business
  - 7.2.3 Kawasaki Liquid Hydrogen Refrigeration Unit Product and Services
- 7.2.4 Kawasaki Liquid Hydrogen Refrigeration Unit Production, Price, Value, Gross Margin and Market Share (2019-2024)
  - 7.2.5 Kawasaki Recent Developments/Updates



- 7.2.6 Kawasaki Competitive Strengths & Weaknesses
- 7.3 Plug Power Inc.
  - 7.3.1 Plug Power Inc. Details
  - 7.3.2 Plug Power Inc. Major Business
  - 7.3.3 Plug Power Inc. Liquid Hydrogen Refrigeration Unit Product and Services
  - 7.3.4 Plug Power Inc. Liquid Hydrogen Refrigeration Unit Production, Price, Value,
- Gross Margin and Market Share (2019-2024)
  - 7.3.5 Plug Power Inc. Recent Developments/Updates
  - 7.3.6 Plug Power Inc. Competitive Strengths & Weaknesses
- 7.4 Chart Industries
  - 7.4.1 Chart Industries Details
  - 7.4.2 Chart Industries Major Business
- 7.4.3 Chart Industries Liquid Hydrogen Refrigeration Unit Product and Services
- 7.4.4 Chart Industries Liquid Hydrogen Refrigeration Unit Production, Price, Value,
- Gross Margin and Market Share (2019-2024)
  - 7.4.5 Chart Industries Recent Developments/Updates
- 7.4.6 Chart Industries Competitive Strengths & Weaknesses
- 7.5 HYLIUM INDUSTRIES INC
  - 7.5.1 HYLIUM INDUSTRIES INC Details
  - 7.5.2 HYLIUM INDUSTRIES INC Major Business
- 7.5.3 HYLIUM INDUSTRIES INC Liquid Hydrogen Refrigeration Unit Product and Services
- 7.5.4 HYLIUM INDUSTRIES INC Liquid Hydrogen Refrigeration Unit Production, Price,
- Value, Gross Margin and Market Share (2019-2024)
  - 7.5.5 HYLIUM INDUSTRIES INC Recent Developments/Updates
- 7.5.6 HYLIUM INDUSTRIES INC Competitive Strengths & Weaknesses
- 7.6 AFCryo
  - 7.6.1 AFCryo Details
  - 7.6.2 AFCryo Major Business
  - 7.6.3 AFCryo Liquid Hydrogen Refrigeration Unit Product and Services
- 7.6.4 AFCryo Liquid Hydrogen Refrigeration Unit Production, Price, Value, Gross
- Margin and Market Share (2019-2024)
  - 7.6.5 AFCryo Recent Developments/Updates
  - 7.6.6 AFCryo Competitive Strengths & Weaknesses
- 7.7 Engie
  - 7.7.1 Engie Details
  - 7.7.2 Engie Major Business
- 7.7.3 Engie Liquid Hydrogen Refrigeration Unit Product and Services
- 7.7.4 Engie Liquid Hydrogen Refrigeration Unit Production, Price, Value, Gross Margin



# and Market Share (2019-2024)

- 7.7.5 Engie Recent Developments/Updates
- 7.7.6 Engie Competitive Strengths & Weaknesses
- 7.8 Quantum Technology
  - 7.8.1 Quantum Technology Details
  - 7.8.2 Quantum Technology Major Business
- 7.8.3 Quantum Technology Liquid Hydrogen Refrigeration Unit Product and Services
- 7.8.4 Quantum Technology Liquid Hydrogen Refrigeration Unit Production, Price,
- Value, Gross Margin and Market Share (2019-2024)
- 7.8.5 Quantum Technology Recent Developments/Updates
- 7.8.6 Quantum Technology Competitive Strengths & Weaknesses
- 7.9 Demaco Cryogenics
  - 7.9.1 Demaco Cryogenics Details
  - 7.9.2 Demaco Cryogenics Major Business
  - 7.9.3 Demaco Cryogenics Liquid Hydrogen Refrigeration Unit Product and Services
  - 7.9.4 Demaco Cryogenics Liquid Hydrogen Refrigeration Unit Production, Price, Value,
- Gross Margin and Market Share (2019-2024)
  - 7.9.5 Demaco Cryogenics Recent Developments/Updates
  - 7.9.6 Demaco Cryogenics Competitive Strengths & Weaknesses
- 7.10 Iwatani Corporation.
  - 7.10.1 Iwatani Corporation. Details
  - 7.10.2 Iwatani Corporation. Major Business
  - 7.10.3 Iwatani Corporation. Liquid Hydrogen Refrigeration Unit Product and Services
- 7.10.4 Iwatani Corporation. Liquid Hydrogen Refrigeration Unit Production, Price,
- Value, Gross Margin and Market Share (2019-2024)
- 7.10.5 Iwatani Corporation. Recent Developments/Updates
- 7.10.6 Iwatani Corporation. Competitive Strengths & Weaknesses
- 7.11 Cryogenmash
  - 7.11.1 Cryogenmash Details
  - 7.11.2 Cryogenmash Major Business
  - 7.11.3 Cryogenmash Liquid Hydrogen Refrigeration Unit Product and Services
  - 7.11.4 Cryogenmash Liquid Hydrogen Refrigeration Unit Production, Price, Value,
- Gross Margin and Market Share (2019-2024)
- 7.11.5 Cryogenmash Recent Developments/Updates
- 7.11.6 Cryogenmash Competitive Strengths & Weaknesses
- 7.12 Beijing Sinoscience Fullcryo Technology Co., Ltd.
  - 7.12.1 Beijing Sinoscience Fullcryo Technology Co., Ltd. Details
  - 7.12.2 Beijing Sinoscience Fullcryo Technology Co., Ltd. Major Business
  - 7.12.3 Beijing Sinoscience Fullcryo Technology Co., Ltd. Liquid Hydrogen



# Refrigeration Unit Product and Services

- 7.12.4 Beijing Sinoscience Fullcryo Technology Co., Ltd. Liquid Hydrogen Refrigeration Unit Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.12.5 Beijing Sinoscience Fullcryo Technology Co., Ltd. Recent Developments/Updates
- 7.12.6 Beijing Sinoscience Fullcryo Technology Co., Ltd. Competitive Strengths & Weaknesses
- 7.13 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd.
- 7.13.1 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Details
- 7.13.2 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Major Business
- 7.13.3 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Liquid Hydrogen Refrigeration Unit Product and Services
- 7.13.4 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Liquid Hydrogen Refrigeration Unit Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.13.5 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Recent Developments/Updates
- 7.13.6 Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Competitive Strengths & Weaknesses

#### **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Liquid Hydrogen Refrigeration Unit Industry Chain
- 8.2 Liquid Hydrogen Refrigeration Unit Upstream Analysis
  - 8.2.1 Liquid Hydrogen Refrigeration Unit Core Raw Materials
  - 8.2.2 Main Manufacturers of Liquid Hydrogen Refrigeration Unit Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Liquid Hydrogen Refrigeration Unit Production Mode
- 8.6 Liquid Hydrogen Refrigeration Unit Procurement Model
- 8.7 Liquid Hydrogen Refrigeration Unit Industry Sales Model and Sales Channels
  - 8.7.1 Liquid Hydrogen Refrigeration Unit Sales Model
  - 8.7.2 Liquid Hydrogen Refrigeration Unit Typical Customers

#### 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 Liquid Hydrogen Refrigeration Unit Production Value by Region (2019, 2023 and 2030) & (USD Million)

Table 2. World Liquid Hydrogen Refrigeration Unit Production Value by Region (2019-2024) & (USD Million)

Table 3. World Liquid Hydrogen Refrigeration Unit Production Value by Region (2025-2030) & (USD Million)

Table 4. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Region (2019-2024)

Table 5. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Region (2025-2030)

Table 6. World Liquid Hydrogen Refrigeration Unit Production by Region (2019-2024) & (K Units)

Table 7. World Liquid Hydrogen Refrigeration Unit Production by Region (2025-2030) & (K Units)

Table 8. World Liquid Hydrogen Refrigeration Unit Production Market Share by Region (2019-2024)

Table 9. World Liquid Hydrogen Refrigeration Unit Production Market Share by Region (2025-2030)

Table 10. World Liquid Hydrogen Refrigeration Unit Average Price by Region (2019-2024) & (US\$/Unit)

Table 11. World Liquid Hydrogen Refrigeration Unit Average Price by Region (2025-2030) & (US\$/Unit)

Table 12. Liquid Hydrogen Refrigeration Unit Major Market Trends

Table 13. World Liquid Hydrogen Refrigeration Unit Consumption Growth Rate Forecast by Region (2019 & 2023 & 2030) & (K Units)

Table 14. World Liquid Hydrogen Refrigeration Unit Consumption by Region (2019-2024) & (K Units)

Table 15. World Liquid Hydrogen Refrigeration Unit Consumption Forecast by Region (2025-2030) & (K Units)

Table 16. World Liquid Hydrogen Refrigeration Unit Production Value by Manufacturer (2019-2024) & (USD Million)

Table 17. Production Value Market Share of Key Liquid Hydrogen Refrigeration Unit Producers in 2023

Table 18. World Liquid Hydrogen Refrigeration Unit Production by Manufacturer (2019-2024) & (K Units)



- Table 19. Production Market Share of Key Liquid Hydrogen Refrigeration Unit Producers in 2023
- Table 20. World Liquid Hydrogen Refrigeration Unit Average Price by Manufacturer (2019-2024) & (US\$/Unit)
- Table 21. Global Liquid Hydrogen Refrigeration Unit Company Evaluation Quadrant
- Table 22. World Liquid Hydrogen Refrigeration Unit Industry Rank of Major

Manufacturers, Based on Production Value in 2023

- Table 23. Head Office and Liquid Hydrogen Refrigeration Unit Production Site of Key Manufacturer
- Table 24. Liquid Hydrogen Refrigeration Unit Market: Company Product Type Footprint
- Table 25. Liquid Hydrogen Refrigeration Unit Market: Company Product Application Footprint
- Table 26. Liquid Hydrogen Refrigeration Unit Competitive Factors
- Table 27. Liquid Hydrogen Refrigeration Unit New Entrant and Capacity Expansion Plans
- Table 28. Liquid Hydrogen Refrigeration Unit Mergers & Acquisitions Activity
- Table 29. United States VS China Liquid Hydrogen Refrigeration Unit Production Value Comparison, (2019 & 2023 & 2030) & (USD Million)
- Table 30. United States VS China Liquid Hydrogen Refrigeration Unit Production Comparison, (2019 & 2023 & 2030) & (K Units)
- Table 31. United States VS China Liquid Hydrogen Refrigeration Unit Consumption Comparison, (2019 & 2023 & 2030) & (K Units)
- Table 32. United States Based Liquid Hydrogen Refrigeration Unit Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value, (2019-2024) & (USD Million)
- Table 34. United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value Market Share (2019-2024)
- Table 35. United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production (2019-2024) & (K Units)
- Table 36. United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share (2019-2024)
- Table 37. China Based Liquid Hydrogen Refrigeration Unit Manufacturers,
- Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value, (2019-2024) & (USD Million)
- Table 39. China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value Market Share (2019-2024)
- Table 40. China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production



(2019-2024) & (K Units)

Table 41. China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share (2019-2024)

Table 42. Rest of World Based Liquid Hydrogen Refrigeration Unit Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value, (2019-2024) & (USD Million)

Table 44. Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Value Market Share (2019-2024)

Table 45. Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production (2019-2024) & (K Units)

Table 46. Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share (2019-2024)

Table 47. World Liquid Hydrogen Refrigeration Unit Production Value by Type, (USD Million), 2019 & 2023 & 2030

Table 48. World Liquid Hydrogen Refrigeration Unit Production by Type (2019-2024) & (K Units)

Table 49. World Liquid Hydrogen Refrigeration Unit Production by Type (2025-2030) & (K Units)

Table 50. World Liquid Hydrogen Refrigeration Unit Production Value by Type (2019-2024) & (USD Million)

Table 51. World Liquid Hydrogen Refrigeration Unit Production Value by Type (2025-2030) & (USD Million)

Table 52. World Liquid Hydrogen Refrigeration Unit Average Price by Type (2019-2024) & (US\$/Unit)

Table 53. World Liquid Hydrogen Refrigeration Unit Average Price by Type (2025-2030) & (US\$/Unit)

Table 54. World Liquid Hydrogen Refrigeration Unit Production Value by Application, (USD Million), 2019 & 2023 & 2030

Table 55. World Liquid Hydrogen Refrigeration Unit Production by Application (2019-2024) & (K Units)

Table 56. World Liquid Hydrogen Refrigeration Unit Production by Application (2025-2030) & (K Units)

Table 57. World Liquid Hydrogen Refrigeration Unit Production Value by Application (2019-2024) & (USD Million)

Table 58. World Liquid Hydrogen Refrigeration Unit Production Value by Application (2025-2030) & (USD Million)

Table 59. World Liquid Hydrogen Refrigeration Unit Average Price by Application (2019-2024) & (US\$/Unit)



- Table 60. World Liquid Hydrogen Refrigeration Unit Average Price by Application (2025-2030) & (US\$/Unit)
- Table 61. Air Liquide SA Basic Information, Manufacturing Base and Competitors
- Table 62. Air Liquide SA Major Business
- Table 63. Air Liquide SA Liquid Hydrogen Refrigeration Unit Product and Services
- Table 64. Air Liquide SA Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 65. Air Liquide SA Recent Developments/Updates
- Table 66. Air Liquide SA Competitive Strengths & Weaknesses
- Table 67. Kawasaki Basic Information, Manufacturing Base and Competitors
- Table 68. Kawasaki Major Business
- Table 69. Kawasaki Liquid Hydrogen Refrigeration Unit Product and Services
- Table 70. Kawasaki Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 71. Kawasaki Recent Developments/Updates
- Table 72. Kawasaki Competitive Strengths & Weaknesses
- Table 73. Plug Power Inc. Basic Information, Manufacturing Base and Competitors
- Table 74. Plug Power Inc. Major Business
- Table 75. Plug Power Inc. Liquid Hydrogen Refrigeration Unit Product and Services
- Table 76. Plug Power Inc. Liquid Hydrogen Refrigeration Unit Production (K Units),
- Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 77. Plug Power Inc. Recent Developments/Updates
- Table 78. Plug Power Inc. Competitive Strengths & Weaknesses
- Table 79. Chart Industries Basic Information, Manufacturing Base and Competitors
- Table 80. Chart Industries Major Business
- Table 81. Chart Industries Liquid Hydrogen Refrigeration Unit Product and Services
- Table 82. Chart Industries Liquid Hydrogen Refrigeration Unit Production (K Units),
- Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 83. Chart Industries Recent Developments/Updates
- Table 84. Chart Industries Competitive Strengths & Weaknesses
- Table 85. HYLIUM INDUSTRIES INC Basic Information, Manufacturing Base and Competitors
- Table 86. HYLIUM INDUSTRIES INC Major Business
- Table 87. HYLIUM INDUSTRIES INC Liquid Hydrogen Refrigeration Unit Product and Services



Table 88. HYLIUM INDUSTRIES INC Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 89. HYLIUM INDUSTRIES INC Recent Developments/Updates

Table 90. HYLIUM INDUSTRIES INC Competitive Strengths & Weaknesses

Table 91. AFCryo Basic Information, Manufacturing Base and Competitors

Table 92. AFCryo Major Business

Table 93. AFCryo Liquid Hydrogen Refrigeration Unit Product and Services

Table 94. AFCryo Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2019-2024)

Table 95. AFCryo Recent Developments/Updates

Table 96. AFCryo Competitive Strengths & Weaknesses

Table 97. Engie Basic Information, Manufacturing Base and Competitors

Table 98. Engie Major Business

Table 99. Engie Liquid Hydrogen Refrigeration Unit Product and Services

Table 100. Engie Liquid Hydrogen Refrigeration Unit Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 101. Engie Recent Developments/Updates

Table 102. Engie Competitive Strengths & Weaknesses

Table 103. Quantum Technology Basic Information, Manufacturing Base and Competitors

Table 104. Quantum Technology Major Business

Table 105. Quantum Technology Liquid Hydrogen Refrigeration Unit Product and Services

Table 106. Quantum Technology Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Quantum Technology Recent Developments/Updates

Table 108. Quantum Technology Competitive Strengths & Weaknesses

Table 109. Demaco Cryogenics Basic Information, Manufacturing Base and Competitors

Table 110. Demaco Cryogenics Major Business

Table 111. Demaco Cryogenics Liquid Hydrogen Refrigeration Unit Product and Services

Table 112. Demaco Cryogenics Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)



- Table 113. Demaco Cryogenics Recent Developments/Updates
- Table 114. Demaco Cryogenics Competitive Strengths & Weaknesses
- Table 115. Iwatani Corporation. Basic Information, Manufacturing Base and Competitors
- Table 116. Iwatani Corporation. Major Business
- Table 117. Iwatani Corporation. Liquid Hydrogen Refrigeration Unit Product and Services
- Table 118. Iwatani Corporation. Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 119. Iwatani Corporation. Recent Developments/Updates
- Table 120. Iwatani Corporation. Competitive Strengths & Weaknesses
- Table 121. Cryogenmash Basic Information, Manufacturing Base and Competitors
- Table 122. Cryogenmash Major Business
- Table 123. Cryogenmash Liquid Hydrogen Refrigeration Unit Product and Services
- Table 124. Cryogenmash Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 125. Cryogenmash Recent Developments/Updates
- Table 126. Cryogenmash Competitive Strengths & Weaknesses
- Table 127. Beijing Sinoscience Fullcryo Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 128. Beijing Sinoscience Fullcryo Technology Co., Ltd. Major Business
- Table 129. Beijing Sinoscience Fullcryo Technology Co., Ltd. Liquid Hydrogen Refrigeration Unit Product and Services
- Table 130. Beijing Sinoscience Fullcryo Technology Co., Ltd. Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 131. Beijing Sinoscience Fullcryo Technology Co., Ltd. Recent Developments/Updates
- Table 132. Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 133. Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Major Business
- Table 134. Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Liquid Hydrogen Refrigeration Unit Product and Services
- Table 135. Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd. Liquid Hydrogen Refrigeration Unit Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)
- Table 136. Global Key Players of Liquid Hydrogen Refrigeration Unit Upstream (Raw



# Materials)

- Table 137. Liquid Hydrogen Refrigeration Unit Typical Customers
- Table 138. Liquid Hydrogen Refrigeration Unit Typical Distributors

List of Figure

- Figure 1. Liquid Hydrogen Refrigeration Unit Picture
- Figure 2. World Liquid Hydrogen Refrigeration Unit Production Value: 2019 & 2023 & 2030, (USD Million)
- Figure 3. World Liquid Hydrogen Refrigeration Unit Production Value and Forecast (2019-2030) & (USD Million)
- Figure 4. World Liquid Hydrogen Refrigeration Unit Production (2019-2030) & (K Units)
- Figure 5. World Liquid Hydrogen Refrigeration Unit Average Price (2019-2030) & (US\$/Unit)
- Figure 6. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Region (2019-2030)
- Figure 7. World Liquid Hydrogen Refrigeration Unit Production Market Share by Region (2019-2030)
- Figure 8. North America Liquid Hydrogen Refrigeration Unit Production (2019-2030) & (K Units)
- Figure 9. Europe Liquid Hydrogen Refrigeration Unit Production (2019-2030) & (K Units)
- Figure 10. China Liquid Hydrogen Refrigeration Unit Production (2019-2030) & (K Units)
- Figure 11. Japan Liquid Hydrogen Refrigeration Unit Production (2019-2030) & (K Units)
- Figure 12. Liquid Hydrogen Refrigeration Unit Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 15. World Liquid Hydrogen Refrigeration Unit Consumption Market Share by Region (2019-2030)
- Figure 16. United States Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 17. China Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 18. Europe Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 19. Japan Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 20. South Korea Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)
- Figure 21. ASEAN Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K



Units)

Figure 22. India Liquid Hydrogen Refrigeration Unit Consumption (2019-2030) & (K Units)

Figure 23. Producer Shipments of Liquid Hydrogen Refrigeration Unit by Manufacturer Revenue (\$MM) and Market Share (%): 2023

Figure 24. Global Four-firm Concentration Ratios (CR4) for Liquid Hydrogen Refrigeration Unit Markets in 2023

Figure 25. Global Four-firm Concentration Ratios (CR8) for Liquid Hydrogen Refrigeration Unit Markets in 2023

Figure 26. United States VS China: Liquid Hydrogen Refrigeration Unit Production Value Market Share Comparison (2019 & 2023 & 2030)

Figure 27. United States VS China: Liquid Hydrogen Refrigeration Unit Production Market Share Comparison (2019 & 2023 & 2030)

Figure 28. United States VS China: Liquid Hydrogen Refrigeration Unit Consumption Market Share Comparison (2019 & 2023 & 2030)

Figure 29. United States Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share 2023

Figure 30. China Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share 2023

Figure 31. Rest of World Based Manufacturers Liquid Hydrogen Refrigeration Unit Production Market Share 2023

Figure 32. World Liquid Hydrogen Refrigeration Unit Production Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 33. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Type in 2023

Figure 34. Small H2O Liquefier

Figure 35. Large And Medium H2O Liquefier

Figure 36. World Liquid Hydrogen Refrigeration Unit Production Market Share by Type (2019-2030)

Figure 37. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Type (2019-2030)

Figure 38. World Liquid Hydrogen Refrigeration Unit Average Price by Type (2019-2030) & (US\$/Unit)

Figure 39. World Liquid Hydrogen Refrigeration Unit Production Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 40. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Application in 2023

Figure 41. Aerospace

Figure 42. Energy



Figure 43. Electronics & Semiconductors

Figure 44. Medical

Figure 45. Other

Figure 46. World Liquid Hydrogen Refrigeration Unit Production Market Share by Application (2019-2030)

Figure 47. World Liquid Hydrogen Refrigeration Unit Production Value Market Share by Application (2019-2030)

Figure 48. World Liquid Hydrogen Refrigeration Unit Average Price by Application (2019-2030) & (US\$/Unit)

Figure 49. Liquid Hydrogen Refrigeration Unit Industry Chain

Figure 50. Liquid Hydrogen Refrigeration Unit Procurement Model

Figure 51. Liquid Hydrogen Refrigeration Unit Sales Model

Figure 52. Liquid Hydrogen Refrigeration Unit Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source



## I would like to order

Product name: Global Liquid Hydrogen Refrigeration Unit Supply, Demand and Key Producers,

2024-2030

Product link: <a href="https://marketpublishers.com/r/G33B308A1AB2EN.html">https://marketpublishers.com/r/G33B308A1AB2EN.html</a>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/G33B308A1AB2EN.html">https://marketpublishers.com/r/G33B308A1AB2EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



