+357 96 030922
info@marketpublishers.com

Global Helium Liquefaction Units Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G2DCAA6A7D35EN.html
Date: November 2026
Pages: 113
Price: US$ 4,480.00 (Single User License)
ID: G2DCAA6A7D35EN

Abstracts

The global Helium Liquefaction Units market size is expected to reach $ 147 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Helium Liquefaction Units are cryogenic systems designed to cool purified gaseous helium to its liquid state at temperatures close to 4 K for industrial supply, scientific research, medical, semiconductor, aerospace, superconducting, and helium recovery applications. The research scope covers complete helium liquefaction units and integrated systems configured around compressors, cold boxes, heat exchangers, expansion devices, purification sections, storage interfaces, and process controls. Depending on capacity and technical configuration, systems may use turbo-expanders, reciprocating expanders, cryocooler-based refrigeration, liquid-nitrogen precooling, or hybrid refrigeration architectures. Key product parameters include liquefaction capacity, typically expressed in liters per hour, specific energy consumption, operating pressure, helium recovery rate, cooling efficiency, automation level, reliability, and achievable product purity. This study categorizes Helium Liquefaction Units primarily by capacity into below 20 L/hour, 20–100 L/hour, and above 100 L/hour systems, reflecting requirements ranging from laboratory-scale helium recycling to centralized industrial helium production. Major downstream applications include industrial helium production, scientific research facilities, particle accelerators, superconducting magnet systems, MRI and NMR facilities, semiconductor manufacturing, aerospace research, nuclear fusion research, and helium recovery and recycling facilities.

Key Findings

Helium Liquefaction Units span laboratory research systems medium-capacity

+357 96 030922
info@marketpublishers.com

institutional installations and large industrial helium production plants

Capacity below 20 L/hour primarily serves decentralized research and recovery applications requiring compact and flexible operation

Systems above 100 L/hour focus on centralized helium production large scientific facilities and high-throughput cryogenic infrastructure

Scientific research superconducting systems semiconductor manufacturing and industrial helium production form the principal downstream demand base

Energy efficiency helium recovery capability automation and long-term operational reliability remain critical equipment selection factors

Market Trends

The Helium Liquefaction Units market is evolving toward higher energy efficiency, stronger integration with helium recovery systems, increased automation, and broader capacity flexibility. Traditional large-scale helium liquefaction projects were predominantly designed around centralized industrial gas production and major scientific installations, while demand is now expanding toward medium- and small-capacity systems serving universities, laboratories, superconducting facilities, semiconductor users, and institutions seeking to reduce dependence on externally supplied liquid helium. This shift is encouraging suppliers to develop more modular and standardized configurations with easier installation, simplified operation, improved turndown capability, and reduced dependence on liquid nitrogen precooling where technically and economically appropriate. At the same time, large industrial systems continue to emphasize optimized cryogenic cycles, high-efficiency expansion machinery, compact cold-box design, and integration of helium recovery, purification, liquefaction, storage, and distribution. Another important trend is the transition from one-way liquid helium consumption toward closed-loop helium management. Users increasingly view liquefaction equipment not only as a production asset but also as part of a helium conservation strategy combining gas collection, purification, recovery, reliquefaction, and reuse. Digital monitoring, remote diagnostics, predictive maintenance, and automated process control are also becoming more important as operators seek stable long-duration performance and lower lifecycle operating costs.

Market Dynamics

+357 96 030922
info@marketpublishers.com

Drivers

The market is supported by sustained demand for liquid helium across superconducting magnets, scientific research, semiconductor manufacturing, aerospace, high-energy physics, medical imaging, and other cryogenic applications. Helium's extremely low boiling point makes it indispensable for applications requiring temperatures near absolute zero, particularly where superconducting materials must be maintained under stable cryogenic conditions. Expansion of particle accelerators, fusion research programs, advanced magnet laboratories, quantum and low-temperature research, and high-field scientific instruments increases the installed base of facilities requiring dependable helium refrigeration and liquefaction. Semiconductor manufacturing and advanced electronics also support demand for high-purity helium and stable cryogenic infrastructure. At the same time, helium supply constraints and price volatility encourage end users to recover and reliquefy evaporated helium rather than rely entirely on external replenishment. This economic and supply-security consideration is particularly important for research institutes, hospitals, universities, and laboratories with recurring liquid helium consumption, supporting investment in localized helium recovery and liquefaction systems.

Restraints

Helium Liquefaction Units involve high capital expenditure, complex cryogenic engineering, and relatively specialized operating requirements. Achieving temperatures near 4 K demands highly efficient compression, heat exchange, expansion, insulation, and process-control technologies, while installation and commissioning often require application-specific engineering. Smaller users may find it difficult to justify the initial investment when annual helium consumption is limited or external liquid helium supply remains reliable and competitively priced. Operating economics are also strongly influenced by electricity consumption, compressor efficiency, maintenance intervals, helium losses, and system utilization rates. Large plants face additional challenges related to project engineering, site integration, feed-gas purification, storage, logistics, and long commissioning periods. Because helium liquefaction equipment generally has a long service life, replacement demand can be relatively slow compared with rapidly changing industrial equipment markets. In addition, specialized components such as cryogenic expanders, cold boxes, high-efficiency heat exchangers, seals, compressors, and instrumentation require highly controlled manufacturing and maintenance capabilities, limiting the number of suppliers capable of supporting demanding applications.

+357 96 030922
info@marketpublishers.com

Opportunities

Growing interest in helium conservation creates significant opportunities for integrated recovery, purification, and liquefaction solutions. Research institutions, universities, medical facilities, semiconductor plants, and other users with continuous helium consumption can improve supply security by collecting boil-off gas and returning it to liquid form, creating demand for compact and medium-capacity systems. The below 20 L/hour and 20–100 L/hour segments are particularly relevant for decentralized facilities seeking a balance between capital cost, operational flexibility, and helium recovery efficiency. At the larger end of the market, new helium resource development, natural-gas processing projects containing recoverable helium, large scientific facilities, fusion research infrastructure, and superconducting technology projects create demand for systems above 100 L/hour and customized industrial plants. Opportunities also exist in modularization, standardized skid-mounted systems, automated startup and shutdown, remote operation, improved turndown ratios, and lower specific energy consumption. Suppliers capable of integrating liquefaction with gas purification, storage, transfer, and recovery equipment can capture a larger share of project value and provide customers with more complete lifecycle solutions.

Challenges

The principal technical challenge is reducing the energy required to liquefy helium while maintaining reliability and process stability. Helium's very low liquefaction temperature creates demanding thermodynamic conditions and requires sophisticated refrigeration cycles, highly efficient heat exchangers, expansion machinery, vacuum insulation, and precise controls. Performance can vary with inlet pressure, purity, feed conditions, liquefaction load, and operating mode, making system optimization highly application-specific. Another challenge is maintaining very low helium leakage because the small molecular size of helium increases sealing and containment requirements. Equipment used in continuous scientific or industrial operations must also deliver high availability, as unexpected shutdowns can interrupt experiments, magnet operation, or production processes. Suppliers therefore need strong capabilities in engineering, commissioning, maintenance, spare parts, and remote technical support. In addition, demand can be project-driven and uneven, especially in large-capacity systems, leading to long sales cycles and revenue volatility. Customers increasingly compare equipment based on total lifecycle economics rather than nominal liquefaction capacity alone, increasing pressure on manufacturers to demonstrate energy efficiency, helium recovery

+357 96 030922
info@marketpublishers.com

performance, maintenance requirements, and long-term operating reliability.

Industry Chain Analysis

The upstream of the Helium Liquefaction Units industry consists of cryogenic compressors, expansion turbines and reciprocating expanders, cryocoolers, aluminum plate-fin and other low-temperature heat exchangers, valves, vacuum-insulated piping, pressure vessels, purification systems, instrumentation, control systems, insulation materials, and specialty fabrication services. These components must operate under extreme low-temperature conditions and maintain high leak tightness, mechanical reliability, and thermal efficiency. The cold box, expansion machinery, heat exchangers, compressors, and control architecture strongly influence the overall energy consumption, operating stability, and liquefaction capacity of the system. For industrial helium production projects, upstream value also extends to feed-gas separation and purification technologies where helium must be recovered from natural gas or other process streams before final liquefaction.

The midstream integrates process design, cryogenic engineering, mechanical equipment, purification, refrigeration cycles, automation, assembly, factory testing, site installation, commissioning, and after-sales service into complete Helium Liquefaction Units. The downstream includes industrial helium producers, scientific research organizations, particle accelerator facilities, superconducting magnet users, hospitals and laboratories operating MRI or NMR equipment, semiconductor manufacturers, aerospace research organizations, nuclear fusion programs, and helium recycling facilities. Value creation is therefore not limited to equipment manufacturing. Process efficiency, system integration, engineering customization, startup reliability, operator training, maintenance, spare parts, digital monitoring, and lifecycle service can materially influence total customer value. For recovery-based applications, the economic value proposition also depends on the amount of helium captured and reused compared with continued purchases of externally supplied liquid helium.

Segment Insights

By liquefaction capacity, systems below 20 L/hour primarily address laboratories, universities, research institutions, small superconducting facilities, and localized helium recovery installations. These customers typically place greater emphasis on compact footprint, ease of operation, automation, reliability, and the ability to match relatively variable helium consumption. The 20–100 L/hour segment serves medium-scale

+357 96 030922
info@marketpublishers.com

research centers, centralized institutional recovery networks, higher-consumption scientific facilities, and specialized industrial users. This segment often requires greater system integration and redundancy while retaining operational flexibility. Systems above 100 L/hour are oriented toward industrial helium production, major scientific infrastructure, large accelerator or fusion projects, centralized cryogenic plants, and other applications requiring continuous high-volume liquid helium supply.

The distinction between capacity segments also reflects different purchasing criteria. Smaller installations are increasingly evaluated on total cost of ownership, operator workload, recovery efficiency, automation, and ease of integration with existing gas collection networks. Medium systems require a balance between efficiency, flexibility, and redundancy, while large-scale installations are more strongly influenced by specific energy consumption, process optimization, long-duration availability, engineering customization, and integration with helium purification and storage infrastructure. As helium conservation becomes a more prominent operating objective, demand is increasingly shifting from standalone liquefaction capacity toward integrated systems that can recover, purify, store, and reliquefy helium within a closed-loop infrastructure.

Downstream Market Opportunities

Scientific research represents one of the most important opportunity areas for Helium Liquefaction Units because particle accelerators, high-field magnets, low-temperature physics laboratories, fusion experiments, and other advanced facilities require stable cryogenic environments and often consume substantial quantities of helium. These facilities can benefit economically and operationally from internal helium recovery and reliquefaction, particularly where continuous experiments make supply interruptions costly. Semiconductor manufacturing provides another attractive application due to its requirements for high-purity gases and advanced process infrastructure. MRI and NMR facilities represent a more selective opportunity as magnet designs and helium-management technologies evolve, but centralized research and medical institutions with significant helium consumption can still justify recovery systems. Aerospace, space research, and superconducting technologies create additional specialized demand. Across these downstream markets, the strongest opportunities increasingly arise where helium liquefaction is combined with recovery, purification, storage, and automated gas management rather than installed as an isolated cryogenic process.

Regional Insights

+357 96 030922
info@marketpublishers.com

North America and Europe represent important markets for Helium Liquefaction Units because both regions have established industrial-gas infrastructure, major scientific research facilities, particle accelerators, superconducting technology programs, semiconductor manufacturing activity, and mature low-temperature research ecosystems. The United States in particular supports demand across industrial helium production, national laboratories, universities, aerospace, semiconductor facilities, and advanced scientific projects. Europe combines major physics and accelerator facilities with strong cryogenic engineering capabilities and a broad base of research institutions, supporting both large customized installations and smaller helium recovery systems. Helium conservation has also become an increasingly important operating consideration for laboratories and research facilities facing supply uncertainty and cost pressure.

Asia-Pacific is becoming increasingly significant as semiconductor investment, scientific infrastructure, superconducting applications, aerospace development, and domestic cryogenic engineering capabilities expand. Japan has a mature base in cryogenic equipment, scientific instrumentation, semiconductor manufacturing, and superconducting technologies, supporting specialized demand for helium liquefaction and recycling systems. China is expanding capabilities in large scientific facilities, fusion research, aerospace, semiconductor production, and industrial helium supply, while domestic suppliers are developing broader cryogenic engineering and helium liquefaction capabilities. Regional opportunities vary substantially by application: industrial helium-producing regions tend to favor larger customized plants, while research-intensive markets generate stronger demand for small- and medium-capacity recovery and liquefaction systems. Local technical service, installation capability, spare-parts availability, and lifecycle support remain important factors in regional purchasing decisions.

Competitive Landscape Analysis

The Helium Liquefaction Units market has relatively high entry barriers because competitive suppliers require deep expertise in cryogenic thermodynamics, expansion machinery, heat exchanger design, compression, purification, vacuum engineering, process automation, and site commissioning. The competitive structure includes large industrial-gas and engineering groups capable of designing complete helium recovery and liquefaction plants, specialized cryogenic equipment companies focused on helium liquefiers and refrigeration systems, and suppliers targeting laboratory-scale or recovery-oriented solutions. Competitive differentiation varies substantially by capacity segment. Large industrial systems emphasize process efficiency, engineering capability, proven

+357 96 030922
info@marketpublishers.com

operating references, turnkey project execution, integration of helium recovery and purification, and long-term plant reliability. Small- and medium-capacity systems compete more strongly on compact design, ease of installation, automated operation, energy consumption, recovery efficiency, service requirements, and flexibility. The confirmed supplier base spans Europe, North America, Japan, and China, reflecting a market built around specialized technical capabilities rather than broad commodity-equipment production. Customer switching is influenced by equipment lifecycle, installed infrastructure, service relationships, and familiarity with operating platforms, while future competitive advantage will increasingly depend on the ability to lower specific energy consumption, integrate closed-loop helium recovery, reduce operator intervention, and provide reliable lifecycle support across different capacity classes.

Report Scope

This report studies the global Helium Liquefaction Units production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

Global Helium Liquefaction Units total production value, 2021-2032, (USD Million)

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

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

+357 96 030922
info@marketpublishers.com

U.S. VS China: Helium Liquefaction Units domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Helium Liquefaction Units 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 plc, Air Liquide S.A., Chart Industries, Inc., Bluefors Oy, Quantum Design, Inc., Sumitomo Heavy Industries, Ltd., Sinoscience Fullcryo Technology Co., Ltd., Taiyo Nippon Sanso, CSSC Pride (Nanjing) Cryogenic 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 Liquefaction Units 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 Liquefaction Units Market, By Region:

+357 96 030922
info@marketpublishers.com

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Helium Liquefaction Units Market, Segmentation by Type:

Capacity: <20 L/hour

Capacity: 20–100 L/hour

Capacity: >100 L/hour

Global Helium Liquefaction Units Market, Segmentation by System Integration:

Standalone Unit

Integrated System

Modular System

+357 96 030922
info@marketpublishers.com

Global Helium Liquefaction Units Market, Segmentation by Nitrogen Pre-Cooling:

With Liquid Nitrogen Pre-Cooling

Without Liquid Nitrogen Pre-Cooling

Global Helium Liquefaction Units Market, Segmentation by Application:

Medical

Semiconductors

Aerospace

Scientific Research

Other

Companies Profiled:

Linde plc

Air Liquide S.A.

Chart Industries, Inc.

Bluefors Oy

Quantum Design, Inc.

Sumitomo Heavy Industries, Ltd.

Sinoscience Fullcryo Technology Co., Ltd.

+357 96 030922
info@marketpublishers.com

Taiyo Nippon Sanso

CSSC Pride (Nanjing) Cryogenic Technology

Key Questions Answered

1. How big is the global Helium Liquefaction Units market?
2. What is the demand of the global Helium Liquefaction Units market?
3. What is the year over year growth of the global Helium Liquefaction Units market?
4. What is the total value of the global Helium Liquefaction Units market?
5. Who are the Major Players in the global Helium Liquefaction Units market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Helium Liquefaction Units Production Value by Manufacturer (2021-2026)

+357 96 030922
info@marketpublishers.com

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

+357 96 030922
info@marketpublishers.com

4.4.2 United States Based Manufacturers Helium Liquefaction Units Production Value (2021-2026)
4.4.3 United States Based Manufacturers Helium Liquefaction Units Production (2021-2026)
4.5 China Based Helium Liquefaction Units Manufacturers and Market Share
4.5.1 China Based Helium Liquefaction Units Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Helium Liquefaction Units Production Value (2021-2026)
4.5.3 China Based Manufacturers Helium Liquefaction Units Production (2021-2026)
4.6 Rest of World Based Helium Liquefaction Units Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Helium Liquefaction Units Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Helium Liquefaction Units Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Helium Liquefaction Units Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Helium Liquefaction Units Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Capacity: <20 L/hour
5.2.2 Capacity: 20–100 L/hour
5.2.3 Capacity: >100 L/hour
5.3 Market Segment by Type
5.3.1 World Helium Liquefaction Units Production by Type (2021-2032)
5.3.2 World Helium Liquefaction Units Production Value by Type (2021-2032)
5.3.3 World Helium Liquefaction Units Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SYSTEM INTEGRATION

6.1 World Helium Liquefaction Units Market Size Overview by System Integration: 2021 VS 2025 VS 2032
6.2 Segment Introduction by System Integration
6.2.1 Standalone Unit
6.2.2 Integrated System

+357 96 030922
info@marketpublishers.com

6.2.3 Modular System
6.3 Market Segment by System Integration
6.3.1 World Helium Liquefaction Units Production by System Integration (2021-2032)
6.3.2 World Helium Liquefaction Units Production Value by System Integration (2021-2032)
6.3.3 World Helium Liquefaction Units Average Price by System Integration (2021-2032)

7 MARKET ANALYSIS BY NITROGEN PRE-COOLING

7.1 World Helium Liquefaction Units Market Size Overview by Nitrogen Pre-Cooling: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Nitrogen Pre-Cooling
7.2.1 With Liquid Nitrogen Pre-Cooling
7.2.2 Without Liquid Nitrogen Pre-Cooling
7.3 Market Segment by Nitrogen Pre-Cooling
7.3.1 World Helium Liquefaction Units Production by Nitrogen Pre-Cooling (2021-2032)
7.3.2 World Helium Liquefaction Units Production Value by Nitrogen Pre-Cooling (2021-2032)
7.3.3 World Helium Liquefaction Units Average Price by Nitrogen Pre-Cooling (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Helium Liquefaction Units Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Medical
8.2.2 Semiconductors
8.2.3 Aerospace
8.2.4 Scientific Research
8.2.5 Other
8.3 Market Segment by Application
8.3.1 World Helium Liquefaction Units Production by Application (2021-2032)
8.3.2 World Helium Liquefaction Units Production Value by Application (2021-2032)
8.3.3 World Helium Liquefaction Units Average Price by Application (2021-2032)

9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

9.1 Linde plc
9.1.1 Linde plc Details
9.1.2 Linde plc Major Business
9.1.3 Linde plc Helium Liquefaction Units Product and Services
9.1.4 Linde plc Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Linde plc Recent Developments/Updates
9.1.6 Linde plc Competitive Strengths & Weaknesses
9.2 Air Liquide S.A.
9.2.1 Air Liquide S.A. Details
9.2.2 Air Liquide S.A. Major Business
9.2.3 Air Liquide S.A. Helium Liquefaction Units Product and Services
9.2.4 Air Liquide S.A. Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Air Liquide S.A. Recent Developments/Updates
9.2.6 Air Liquide S.A. Competitive Strengths & Weaknesses
9.3 Chart Industries, Inc.
9.3.1 Chart Industries, Inc. Details
9.3.2 Chart Industries, Inc. Major Business
9.3.3 Chart Industries, Inc. Helium Liquefaction Units Product and Services
9.3.4 Chart Industries, Inc. Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Chart Industries, Inc. Recent Developments/Updates
9.3.6 Chart Industries, Inc. Competitive Strengths & Weaknesses
9.4 Bluefors Oy
9.4.1 Bluefors Oy Details
9.4.2 Bluefors Oy Major Business
9.4.3 Bluefors Oy Helium Liquefaction Units Product and Services
9.4.4 Bluefors Oy Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Bluefors Oy Recent Developments/Updates
9.4.6 Bluefors Oy Competitive Strengths & Weaknesses
9.5 Quantum Design, Inc.
9.5.1 Quantum Design, Inc. Details
9.5.2 Quantum Design, Inc. Major Business
9.5.3 Quantum Design, Inc. Helium Liquefaction Units Product and Services
9.5.4 Quantum Design, Inc. Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.5.5 Quantum Design, Inc. Recent Developments/Updates
9.5.6 Quantum Design, Inc. Competitive Strengths & Weaknesses
9.6 Sumitomo Heavy Industries, Ltd.
9.6.1 Sumitomo Heavy Industries, Ltd. Details
9.6.2 Sumitomo Heavy Industries, Ltd. Major Business
9.6.3 Sumitomo Heavy Industries, Ltd. Helium Liquefaction Units Product and Services
9.6.4 Sumitomo Heavy Industries, Ltd. Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Sumitomo Heavy Industries, Ltd. Recent Developments/Updates
9.6.6 Sumitomo Heavy Industries, Ltd. Competitive Strengths & Weaknesses
9.7 Sinoscience Fullcryo Technology Co., Ltd.
9.7.1 Sinoscience Fullcryo Technology Co., Ltd. Details
9.7.2 Sinoscience Fullcryo Technology Co., Ltd. Major Business
9.7.3 Sinoscience Fullcryo Technology Co., Ltd. Helium Liquefaction Units Product and Services
9.7.4 Sinoscience Fullcryo Technology Co., Ltd. Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Sinoscience Fullcryo Technology Co., Ltd. Recent Developments/Updates
9.7.6 Sinoscience Fullcryo Technology Co., Ltd. Competitive Strengths & Weaknesses
9.8 Taiyo Nippon Sanso
9.8.1 Taiyo Nippon Sanso Details
9.8.2 Taiyo Nippon Sanso Major Business
9.8.3 Taiyo Nippon Sanso Helium Liquefaction Units Product and Services
9.8.4 Taiyo Nippon Sanso Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Taiyo Nippon Sanso Recent Developments/Updates
9.8.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses
9.9 CSSC Pride (Nanjing) Cryogenic Technology
9.9.1 CSSC Pride (Nanjing) Cryogenic Technology Details
9.9.2 CSSC Pride (Nanjing) Cryogenic Technology Major Business
9.9.3 CSSC Pride (Nanjing) Cryogenic Technology Helium Liquefaction Units Product and Services
9.9.4 CSSC Pride (Nanjing) Cryogenic Technology Helium Liquefaction Units Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 CSSC Pride (Nanjing) Cryogenic Technology Recent Developments/Updates
9.9.6 CSSC Pride (Nanjing) Cryogenic Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

+357 96 030922
info@marketpublishers.com

10.1 Helium Liquefaction Units Industry Chain
10.2 Helium Liquefaction Units Upstream Analysis
10.2.1 Helium Liquefaction Units Core Raw Materials
10.2.2 Main Manufacturers of Helium Liquefaction Units Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Helium Liquefaction Units Production Mode
10.6 Helium Liquefaction Units Procurement Model
10.7 Helium Liquefaction Units Industry Sales Model and Sales Channels
10.7.1 Helium Liquefaction Units Sales Model
10.7.2 Helium Liquefaction Units Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Helium Liquefaction Units Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Helium Liquefaction Units Production Value by Region (2021-2026) & (USD Million)
Table 3. World Helium Liquefaction Units Production Value by Region (2027-2032) & (USD Million)
Table 4. World Helium Liquefaction Units Production Value Market Share by Region (2021-2026)
Table 5. World Helium Liquefaction Units Production Value Market Share by Region (2027-2032)
Table 6. World Helium Liquefaction Units Production by Region (2021-2026) & (Units)
Table 7. World Helium Liquefaction Units Production by Region (2027-2032) & (Units)
Table 8. World Helium Liquefaction Units Production Market Share by Region (2021-2026)
Table 9. World Helium Liquefaction Units Production Market Share by Region (2027-2032)
Table 10. World Helium Liquefaction Units Average Price by Region (2021-2026) & (K US$/Unit)
Table 11. World Helium Liquefaction Units Average Price by Region (2027-2032) & (K US$/Unit)
Table 12. Helium Liquefaction Units Major Market Trends
Table 13. World Helium Liquefaction Units Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Helium Liquefaction Units Consumption by Region (2021-2026) & (Units)
Table 15. World Helium Liquefaction Units Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Helium Liquefaction Units Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Helium Liquefaction Units Producers in 2025
Table 18. World Helium Liquefaction Units Production by Manufacturer (2021-2026) & (Units)
Table 19. Production Market Share of Key Helium Liquefaction Units Producers in 2025
Table 20. World Helium Liquefaction Units Average Price by Manufacturer (2021-2026)

+357 96 030922
info@marketpublishers.com

& (K US$/Unit)
Table 21. Global Helium Liquefaction Units Company Evaluation Quadrant
Table 22. World Helium Liquefaction Units Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Helium Liquefaction Units Production Site of Key Manufacturer
Table 24. Helium Liquefaction Units Market: Company Product Type Footprint
Table 25. Helium Liquefaction Units Market: Company Product Application Footprint
Table 26. Helium Liquefaction Units Competitive Factors
Table 27. Helium Liquefaction Units New Entrant and Capacity Expansion Plans
Table 28. Helium Liquefaction Units Mergers & Acquisitions Activity
Table 29. United States VS China Helium Liquefaction Units Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Helium Liquefaction Units Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Helium Liquefaction Units Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Helium Liquefaction Units Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Helium Liquefaction Units Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Helium Liquefaction Units Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Helium Liquefaction Units Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Helium Liquefaction Units Production Market Share (2021-2026)
Table 37. China Based Helium Liquefaction Units Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Helium Liquefaction Units Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Helium Liquefaction Units Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Helium Liquefaction Units Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Helium Liquefaction Units Production Market Share (2021-2026)
Table 42. Rest of World Based Helium Liquefaction Units Manufacturers, Headquarters and Production Site (State, Country)

+357 96 030922
info@marketpublishers.com

Table 43. Rest of World Based Manufacturers Helium Liquefaction Units Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Helium Liquefaction Units Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Helium Liquefaction Units Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Helium Liquefaction Units Production Market Share (2021-2026)
Table 47. World Helium Liquefaction Units Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Helium Liquefaction Units Production by Type (2021-2026) & (Units)
Table 49. World Helium Liquefaction Units Production by Type (2027-2032) & (Units)
Table 50. World Helium Liquefaction Units Production Value by Type (2021-2026) & (USD Million)
Table 51. World Helium Liquefaction Units Production Value by Type (2027-2032) & (USD Million)
Table 52. World Helium Liquefaction Units Average Price by Type (2021-2026) & (K US$/Unit)
Table 53. World Helium Liquefaction Units Average Price by Type (2027-2032) & (K US$/Unit)
Table 54. World Helium Liquefaction Units Production Value by System Integration, (USD Million), 2021 & 2025 & 2032
Table 55. World Helium Liquefaction Units Production by System Integration (2021-2026) & (Units)
Table 56. World Helium Liquefaction Units Production by System Integration (2027-2032) & (Units)
Table 57. World Helium Liquefaction Units Production Value by System Integration (2021-2026) & (USD Million)
Table 58. World Helium Liquefaction Units Production Value by System Integration (2027-2032) & (USD Million)
Table 59. World Helium Liquefaction Units Average Price by System Integration (2021-2026) & (K US$/Unit)
Table 60. World Helium Liquefaction Units Average Price by System Integration (2027-2032) & (K US$/Unit)
Table 61. World Helium Liquefaction Units Production Value by Nitrogen Pre-Cooling, (USD Million), 2021 & 2025 & 2032
Table 62. World Helium Liquefaction Units Production by Nitrogen Pre-Cooling (2021-2026) & (Units)
Table 63. World Helium Liquefaction Units Production by Nitrogen Pre-Cooling

+357 96 030922
info@marketpublishers.com

(2027-2032) & (Units)
Table 64. World Helium Liquefaction Units Production Value by Nitrogen Pre-Cooling (2021-2026) & (USD Million)
Table 65. World Helium Liquefaction Units Production Value by Nitrogen Pre-Cooling (2027-2032) & (USD Million)
Table 66. World Helium Liquefaction Units Average Price by Nitrogen Pre-Cooling (2021-2026) & (K US$/Unit)
Table 67. World Helium Liquefaction Units Average Price by Nitrogen Pre-Cooling (2027-2032) & (K US$/Unit)
Table 68. World Helium Liquefaction Units Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Helium Liquefaction Units Production by Application (2021-2026) & (Units)
Table 70. World Helium Liquefaction Units Production by Application (2027-2032) & (Units)
Table 71. World Helium Liquefaction Units Production Value by Application (2021-2026) & (USD Million)
Table 72. World Helium Liquefaction Units Production Value by Application (2027-2032) & (USD Million)
Table 73. World Helium Liquefaction Units Average Price by Application (2021-2026) & (K US$/Unit)
Table 74. World Helium Liquefaction Units Average Price by Application (2027-2032) & (K US$/Unit)
Table 75. Linde plc Basic Information, Manufacturing Base and Competitors
Table 76. Linde plc Major Business
Table 77. Linde plc Helium Liquefaction Units Product and Services
Table 78. Linde plc Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Linde plc Recent Developments/Updates
Table 80. Linde plc Competitive Strengths & Weaknesses
Table 81. Air Liquide S.A. Basic Information, Manufacturing Base and Competitors
Table 82. Air Liquide S.A. Major Business
Table 83. Air Liquide S.A. Helium Liquefaction Units Product and Services
Table 84. Air Liquide S.A. Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Air Liquide S.A. Recent Developments/Updates
Table 86. Air Liquide S.A. Competitive Strengths & Weaknesses
Table 87. Chart Industries, Inc. Basic Information, Manufacturing Base and Competitors

+357 96 030922
info@marketpublishers.com

Table 88. Chart Industries, Inc. Major Business
Table 89. Chart Industries, Inc. Helium Liquefaction Units Product and Services
Table 90. Chart Industries, Inc. Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Chart Industries, Inc. Recent Developments/Updates
Table 92. Chart Industries, Inc. Competitive Strengths & Weaknesses
Table 93. Bluefors Oy Basic Information, Manufacturing Base and Competitors
Table 94. Bluefors Oy Major Business
Table 95. Bluefors Oy Helium Liquefaction Units Product and Services
Table 96. Bluefors Oy Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Bluefors Oy Recent Developments/Updates
Table 98. Bluefors Oy Competitive Strengths & Weaknesses
Table 99. Quantum Design, Inc. Basic Information, Manufacturing Base and Competitors
Table 100. Quantum Design, Inc. Major Business
Table 101. Quantum Design, Inc. Helium Liquefaction Units Product and Services
Table 102. Quantum Design, Inc. Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Quantum Design, Inc. Recent Developments/Updates
Table 104. Quantum Design, Inc. Competitive Strengths & Weaknesses
Table 105. Sumitomo Heavy Industries, Ltd. Basic Information, Manufacturing Base and Competitors
Table 106. Sumitomo Heavy Industries, Ltd. Major Business
Table 107. Sumitomo Heavy Industries, Ltd. Helium Liquefaction Units Product and Services
Table 108. Sumitomo Heavy Industries, Ltd. Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Sumitomo Heavy Industries, Ltd. Recent Developments/Updates
Table 110. Sumitomo Heavy Industries, Ltd. Competitive Strengths & Weaknesses
Table 111. Sinoscience Fullcryo Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 112. Sinoscience Fullcryo Technology Co., Ltd. Major Business
Table 113. Sinoscience Fullcryo Technology Co., Ltd. Helium Liquefaction Units Product and Services
Table 114. Sinoscience Fullcryo Technology Co., Ltd. Helium Liquefaction Units

+357 96 030922
info@marketpublishers.com

Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Sinoscience Fullcryo Technology Co., Ltd. Recent Developments/Updates
Table 116. Sinoscience Fullcryo Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 117. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors
Table 118. Taiyo Nippon Sanso Major Business
Table 119. Taiyo Nippon Sanso Helium Liquefaction Units Product and Services
Table 120. Taiyo Nippon Sanso Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Taiyo Nippon Sanso Recent Developments/Updates
Table 122. Taiyo Nippon Sanso Competitive Strengths & Weaknesses
Table 123. CSSC Pride (Nanjing) Cryogenic Technology Basic Information, Manufacturing Base and Competitors
Table 124. CSSC Pride (Nanjing) Cryogenic Technology Major Business
Table 125. CSSC Pride (Nanjing) Cryogenic Technology Helium Liquefaction Units Product and Services
Table 126. CSSC Pride (Nanjing) Cryogenic Technology Helium Liquefaction Units Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. CSSC Pride (Nanjing) Cryogenic Technology Recent Developments/Updates
Table 128. CSSC Pride (Nanjing) Cryogenic Technology Competitive Strengths & Weaknesses
Table 129. Global Key Players of Helium Liquefaction Units Upstream (Raw Materials)
Table 130. Global Helium Liquefaction Units Typical Customers
Table 131. Helium Liquefaction Units Typical Distributors

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Helium Liquefaction Units Picture
Figure 2. World Helium Liquefaction Units Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Helium Liquefaction Units Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Helium Liquefaction Units Production (2021-2032) & (Units)
Figure 5. World Helium Liquefaction Units Average Price (2021-2032) & (K US$/Unit)
Figure 6. World Helium Liquefaction Units Production Value Market Share by Region (2021-2032)
Figure 7. World Helium Liquefaction Units Production Market Share by Region (2021-2032)
Figure 8. North America Helium Liquefaction Units Production (2021-2032) & (Units)
Figure 9. Europe Helium Liquefaction Units Production (2021-2032) & (Units)
Figure 10. China Helium Liquefaction Units Production (2021-2032) & (Units)
Figure 11. Japan Helium Liquefaction Units Production (2021-2032) & (Units)
Figure 12. Helium Liquefaction Units Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 15. World Helium Liquefaction Units Consumption Market Share by Region (2021-2032)
Figure 16. United States Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 17. China Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 18. Europe Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 19. Japan Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 20. South Korea Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 21. ASEAN Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 22. India Helium Liquefaction Units Consumption (2021-2032) & (Units)
Figure 23. Producer Shipments of Helium Liquefaction Units by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Helium Liquefaction Units Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Helium Liquefaction Units Markets in 2025
Figure 26. United States VS China: Helium Liquefaction Units Production Value Market Share Comparison (2021 & 2025 & 2032)

+357 96 030922
info@marketpublishers.com

Figure 27. United States VS China: Helium Liquefaction Units Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Helium Liquefaction Units Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Helium Liquefaction Units Production Market Share 2025
Figure 30. China Based Manufacturers Helium Liquefaction Units Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Helium Liquefaction Units Production Market Share 2025
Figure 32. World Helium Liquefaction Units Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Helium Liquefaction Units Production Value Market Share by Type in 2025
Figure 34. Capacity: <20 L/hour
Figure 35. Capacity: 20–100 L/hour
Figure 36. Capacity: >100 L/hour
Figure 37. World Helium Liquefaction Units Production Market Share by Type (2021-2032)
Figure 38. World Helium Liquefaction Units Production Value Market Share by Type (2021-2032)
Figure 39. World Helium Liquefaction Units Average Price by Type (2021-2032) & (K US$/Unit)
Figure 40. World Helium Liquefaction Units Production Value by System Integration, (USD Million), 2021 & 2025 & 2032
Figure 41. World Helium Liquefaction Units Production Value Market Share by System Integration in 2025
Figure 42. Standalone Unit
Figure 43. Integrated System
Figure 44. Modular System
Figure 45. World Helium Liquefaction Units Production Market Share by System Integration (2021-2032)
Figure 46. World Helium Liquefaction Units Production Value Market Share by System Integration (2021-2032)
Figure 47. World Helium Liquefaction Units Average Price by System Integration (2021-2032) & (K US$/Unit)
Figure 48. World Helium Liquefaction Units Production Value by Nitrogen Pre-Cooling, (USD Million), 2021 & 2025 & 2032
Figure 49. World Helium Liquefaction Units Production Value Market Share by Nitrogen

+357 96 030922
info@marketpublishers.com

Pre-Cooling in 2025
Figure 50. With Liquid Nitrogen Pre-Cooling
Figure 51. Without Liquid Nitrogen Pre-Cooling
Figure 52. World Helium Liquefaction Units Production Market Share by Nitrogen Pre-Cooling (2021-2032)
Figure 53. World Helium Liquefaction Units Production Value Market Share by Nitrogen Pre-Cooling (2021-2032)
Figure 54. World Helium Liquefaction Units Average Price by Nitrogen Pre-Cooling (2021-2032) & (K US$/Unit)
Figure 55. World Helium Liquefaction Units Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 56. World Helium Liquefaction Units Production Value Market Share by Application in 2025
Figure 57. Medical
Figure 58. Semiconductors
Figure 59. Aerospace
Figure 60. Scientific Research
Figure 61. Other
Figure 62. World Helium Liquefaction Units Production Market Share by Application (2021-2032)
Figure 63. World Helium Liquefaction Units Production Value Market Share by Application (2021-2032)
Figure 64. World Helium Liquefaction Units Average Price by Application (2021-2032) & (K US$/Unit)
Figure 65. Helium Liquefaction Units Industry Chain
Figure 66. Helium Liquefaction Units Procurement Model
Figure 67. Helium Liquefaction Units Sales Model
Figure 68. Helium Liquefaction Units Sales Channels, Direct Sales, and Distribution
Figure 69. Methodology
Figure 70. Research Process and Data Source

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Helium Liquefaction Units Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G2DCAA6A7D35EN.html

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

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G2DCAA6A7D35EN.html