

Global Liquid Nitrogen Backup System Market Growth 2026-2032

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Abstracts

The global Liquid Nitrogen Backup System market size is predicted to grow from US\$ 17.68 million in 2025 to US\$ 24.62 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

An liquid nitrogen backup system is an emergency cooling system for ultra-low temperature (ULT) freezers, automatically injecting liquid nitrogen (LN2) into the freezer chamber when power fails or temperatures rise, preserving critical biological samples until normal cooling is restored. It's essential for sample security, running on battery power for a period and ensuring ultra-cold conditions (like -196°C) even during outages, preventing sample loss.

Global production of liquid nitrogen backup systems is projected to reach 6,500 units by 2025, with an average price of \$2,780 per unit. Gross profit margins typically range from 30% to 50%.

Liquid nitrogen backup systems are designed to provide emergency cryogenic protection for critical equipment and samples when primary cooling or supply systems fail. Upstream supply mainly consists of basic materials and core components, including liquid nitrogen, vacuum-insulated piping, stainless steel or aluminum cryogenic vessels, valves and pressure regulation components, and sensors and control elements. The upstream value lies in low-temperature reliability, sealing performance, and stable long-term supply. Downstream applications are the main demand driver, focusing on biobanks, cell and gene therapy centers, hospitals and research institutes, pharmaceutical companies, vaccine production lines, as well as cryogenic testing in semiconductor and aerospace industries. Biobanks and hospitals prioritize automatic switchover during power outages or equipment failure, temperature stability, and

sample safety. Pharmaceutical and biotech companies emphasize GMP compliance, validation readiness, and compatibility with existing freezing or storage systems. Research institutions and advanced manufacturing users focus on system reliability, simplified maintenance, and total cost of ownership. Downstream purchasing decisions are primarily driven by risk mitigation and operational continuity, with relatively low price sensitivity.

In terms of development trends, liquid nitrogen backup systems are evolving toward higher automation, remote monitoring, and modular configurations, with increasing integration of intelligent alarms and data logging. Key growth drivers include the expansion of biobanking and biologics R&D, rapid growth of cell and gene therapy, higher tolerance requirements for sample and production continuity, and rising demand for backup solutions due to extreme weather and power instability. Constraints include high initial investment costs, strict installation and safety requirements, dependence on liquid nitrogen supply infrastructure, and limited awareness of backup system necessity among some users.

LP Information, Inc. (LPI) ' newest research report, the “Liquid Nitrogen Backup System Industry Forecast” looks at past sales and reviews total world Liquid Nitrogen Backup System sales in 2025, providing a comprehensive analysis by region and market sector of projected Liquid Nitrogen Backup System sales for 2026 through 2032. With Liquid Nitrogen Backup System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Liquid Nitrogen Backup System industry.

This Insight Report provides a comprehensive analysis of the global Liquid Nitrogen Backup System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Liquid Nitrogen Backup System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Liquid Nitrogen Backup System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Liquid Nitrogen Backup System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Liquid Nitrogen Backup

System.

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid Nitrogen Backup System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dewar Tank Type

Atmospheric Pressure Tank Type

Pressible Tank Type

Others

Segmentation by Structure:

Mobile

Fixed

Segmentation by Switching Method:

Manual Switching

Semi-Automatic Switching

Fully Automatic Switching

Segmentation by Boosting Method:

Self-Pressurizing Type

External Boosting Type

Gravity Conveying Type

Vaporization Conveying Type

Segmentation by Application:

Laboratory

Medical

Semiconductor

Cold Chain

Industrial Cryogenic

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Thermo Fisher Scientific

Eppendorf

PHC Corporation

Haier Biomedical

ARCTIKO

Stirling Ultracold

Helmer Scientific

So-Low Environmental Equipment

Zhongke Meiling Cryogenics

BIOBASE

Hampshire Controls

Antech Scientific

Key Questions Addressed in this Report

What is the 10-year outlook for the global Liquid Nitrogen Backup System market?

What factors are driving Liquid Nitrogen Backup System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Liquid Nitrogen Backup System market opportunities vary by end market size?

How does Liquid Nitrogen Backup System break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Liquid Nitrogen Backup System Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Liquid Nitrogen Backup System by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Liquid Nitrogen Backup System by Country/Region, 2021, 2025 & 2032

2.2 Liquid Nitrogen Backup System Segment by Type

- 2.2.1 Dewar Tank Type
- 2.2.2 Atmospheric Pressure Tank Type
- 2.2.3 Pressible Tank Type
- 2.2.4 Others
- 2.2.5 Liquid Nitrogen Backup System Sales by Type
 - 2.2.5.1 Global Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Liquid Nitrogen Backup System Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Liquid Nitrogen Backup System Sale Price by Type (2021-2026)

2.3 Liquid Nitrogen Backup System Segment by Structure

- 2.3.1 Mobile
- 2.3.2 Fixed
- 2.3.3 Liquid Nitrogen Backup System Sales by Structure
 - 2.3.3.1 Global Liquid Nitrogen Backup System Sales Market Share by Structure (2021-2026)
 - 2.3.3.2 Global Liquid Nitrogen Backup System Revenue and Market Share by

Structure (2021-2026)

2.3.3.3 Global Liquid Nitrogen Backup System Sale Price by Structure (2021-2026)

2.4 Liquid Nitrogen Backup System Segment by Switching Method

2.4.1 Manual Switching

2.4.2 Semi-Automatic Switching

2.4.3 Fully Automatic Switching

2.4.4 Liquid Nitrogen Backup System Sales by Switching Method

2.4.4.1 Global Liquid Nitrogen Backup System Sales Market Share by Switching Method (2021-2026)

2.4.4.2 Global Liquid Nitrogen Backup System Revenue and Market Share by Switching Method (2021-2026)

2.4.4.3 Global Liquid Nitrogen Backup System Sale Price by Switching Method (2021-2026)

2.5 Liquid Nitrogen Backup System Segment by Boosting Method

2.5.1 Self-Pressurizing Type

2.5.2 External Boosting Type

2.5.3 Gravity Conveying Type

2.5.4 Vaporization Conveying Type

2.5.5 Liquid Nitrogen Backup System Sales by Boosting Method

2.5.5.1 Global Liquid Nitrogen Backup System Sales Market Share by Boosting Method (2021-2026)

2.5.5.2 Global Liquid Nitrogen Backup System Revenue and Market Share by Boosting Method (2021-2026)

2.5.5.3 Global Liquid Nitrogen Backup System Sale Price by Boosting Method (2021-2026)

2.6 Liquid Nitrogen Backup System Segment by Application

2.6.1 Laboratory

2.6.2 Medical

2.6.3 Semiconductor

2.6.4 Cold Chain

2.6.5 Industrial Cryogenic

2.6.6 Liquid Nitrogen Backup System Sales by Application

2.6.6.1 Global Liquid Nitrogen Backup System Sale Market Share by Application (2021-2026)

2.6.6.2 Global Liquid Nitrogen Backup System Revenue and Market Share by Application (2021-2026)

2.6.6.3 Global Liquid Nitrogen Backup System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Liquid Nitrogen Backup System Breakdown Data by Company

3.1.1 Global Liquid Nitrogen Backup System Annual Sales by Company (2021-2026)

3.1.2 Global Liquid Nitrogen Backup System Sales Market Share by Company (2021-2026)

3.2 Global Liquid Nitrogen Backup System Annual Revenue by Company (2021-2026)

3.2.1 Global Liquid Nitrogen Backup System Revenue by Company (2021-2026)

3.2.2 Global Liquid Nitrogen Backup System Revenue Market Share by Company (2021-2026)

3.3 Global Liquid Nitrogen Backup System Sale Price by Company

3.4 Key Manufacturers Liquid Nitrogen Backup System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Liquid Nitrogen Backup System Product Location Distribution

3.4.2 Players Liquid Nitrogen Backup System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LIQUID NITROGEN BACKUP SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Liquid Nitrogen Backup System Market Size by Geographic Region (2021-2026)

4.1.1 Global Liquid Nitrogen Backup System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Liquid Nitrogen Backup System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Liquid Nitrogen Backup System Market Size by Country/Region (2021-2026)

4.2.1 Global Liquid Nitrogen Backup System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Liquid Nitrogen Backup System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Liquid Nitrogen Backup System Sales Growth

4.4 APAC Liquid Nitrogen Backup System Sales Growth

4.5 Europe Liquid Nitrogen Backup System Sales Growth

4.6 Middle East & Africa Liquid Nitrogen Backup System Sales Growth

5 AMERICAS

5.1 Americas Liquid Nitrogen Backup System Sales by Country

5.1.1 Americas Liquid Nitrogen Backup System Sales by Country (2021-2026)

5.1.2 Americas Liquid Nitrogen Backup System Revenue by Country (2021-2026)

5.2 Americas Liquid Nitrogen Backup System Sales by Type (2021-2026)

5.3 Americas Liquid Nitrogen Backup System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Liquid Nitrogen Backup System Sales by Region

6.1.1 APAC Liquid Nitrogen Backup System Sales by Region (2021-2026)

6.1.2 APAC Liquid Nitrogen Backup System Revenue by Region (2021-2026)

6.2 APAC Liquid Nitrogen Backup System Sales by Type (2021-2026)

6.3 APAC Liquid Nitrogen Backup System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Liquid Nitrogen Backup System by Country

7.1.1 Europe Liquid Nitrogen Backup System Sales by Country (2021-2026)

7.1.2 Europe Liquid Nitrogen Backup System Revenue by Country (2021-2026)

7.2 Europe Liquid Nitrogen Backup System Sales by Type (2021-2026)

7.3 Europe Liquid Nitrogen Backup System Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Liquid Nitrogen Backup System by Country

8.1.1 Middle East & Africa Liquid Nitrogen Backup System Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Liquid Nitrogen Backup System Revenue by Country
(2021-2026)

8.2 Middle East & Africa Liquid Nitrogen Backup System Sales by Type (2021-2026)

8.3 Middle East & Africa Liquid Nitrogen Backup System Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Liquid Nitrogen Backup System

10.3 Manufacturing Process Analysis of Liquid Nitrogen Backup System

10.4 Industry Chain Structure of Liquid Nitrogen Backup System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Liquid Nitrogen Backup System Distributors

11.3 Liquid Nitrogen Backup System Customer

12 WORLD FORECAST REVIEW FOR LIQUID NITROGEN BACKUP SYSTEM BY GEOGRAPHIC REGION

- 12.1 Global Liquid Nitrogen Backup System Market Size Forecast by Region
 - 12.1.1 Global Liquid Nitrogen Backup System Forecast by Region (2027-2032)
 - 12.1.2 Global Liquid Nitrogen Backup System Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Liquid Nitrogen Backup System Forecast by Type (2027-2032)
- 12.7 Global Liquid Nitrogen Backup System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Thermo Fisher Scientific
 - 13.1.1 Thermo Fisher Scientific Company Information
 - 13.1.2 Thermo Fisher Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.1.3 Thermo Fisher Scientific Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Thermo Fisher Scientific Main Business Overview
 - 13.1.5 Thermo Fisher Scientific Latest Developments
- 13.2 Eppendorf
 - 13.2.1 Eppendorf Company Information
 - 13.2.2 Eppendorf Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.2.3 Eppendorf Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Eppendorf Main Business Overview
 - 13.2.5 Eppendorf Latest Developments
- 13.3 PHC Corporation
 - 13.3.1 PHC Corporation Company Information
 - 13.3.2 PHC Corporation Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.3.3 PHC Corporation Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 PHC Corporation Main Business Overview

- 13.3.5 PHC Corporation Latest Developments
- 13.4 Haier Biomedical
 - 13.4.1 Haier Biomedical Company Information
 - 13.4.2 Haier Biomedical Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.4.3 Haier Biomedical Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Haier Biomedical Main Business Overview
 - 13.4.5 Haier Biomedical Latest Developments
- 13.5 ARCTIKO
 - 13.5.1 ARCTIKO Company Information
 - 13.5.2 ARCTIKO Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.5.3 ARCTIKO Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 ARCTIKO Main Business Overview
 - 13.5.5 ARCTIKO Latest Developments
- 13.6 Stirling Ultracold
 - 13.6.1 Stirling Ultracold Company Information
 - 13.6.2 Stirling Ultracold Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.6.3 Stirling Ultracold Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Stirling Ultracold Main Business Overview
 - 13.6.5 Stirling Ultracold Latest Developments
- 13.7 Helmer Scientific
 - 13.7.1 Helmer Scientific Company Information
 - 13.7.2 Helmer Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.7.3 Helmer Scientific Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Helmer Scientific Main Business Overview
 - 13.7.5 Helmer Scientific Latest Developments
- 13.8 So-Low Environmental Equipment
 - 13.8.1 So-Low Environmental Equipment Company Information
 - 13.8.2 So-Low Environmental Equipment Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.8.3 So-Low Environmental Equipment Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 So-Low Environmental Equipment Main Business Overview

- 13.8.5 So-Low Environmental Equipment Latest Developments
- 13.9 Zhongke Meiling Cryogenics
 - 13.9.1 Zhongke Meiling Cryogenics Company Information
 - 13.9.2 Zhongke Meiling Cryogenics Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.9.3 Zhongke Meiling Cryogenics Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Zhongke Meiling Cryogenics Main Business Overview
 - 13.9.5 Zhongke Meiling Cryogenics Latest Developments
- 13.10 BIOBASE
 - 13.10.1 BIOBASE Company Information
 - 13.10.2 BIOBASE Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.10.3 BIOBASE Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 BIOBASE Main Business Overview
 - 13.10.5 BIOBASE Latest Developments
- 13.11 Hampshire Controls
 - 13.11.1 Hampshire Controls Company Information
 - 13.11.2 Hampshire Controls Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.11.3 Hampshire Controls Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Hampshire Controls Main Business Overview
 - 13.11.5 Hampshire Controls Latest Developments
- 13.12 Antech Scientific
 - 13.12.1 Antech Scientific Company Information
 - 13.12.2 Antech Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications
 - 13.12.3 Antech Scientific Liquid Nitrogen Backup System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Antech Scientific Main Business Overview
 - 13.12.5 Antech Scientific Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Liquid Nitrogen Backup System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Liquid Nitrogen Backup System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Dewar Tank Type

Table 4. Major Players of Atmospheric Pressure Tank Type

Table 5. Major Players of Pressible Tank Type

Table 6. Major Players of Others

Table 7. Global Liquid Nitrogen Backup System Sales by Type (2021-2026) & (Units)

Table 8. Global Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)

Table 9. Global Liquid Nitrogen Backup System Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Liquid Nitrogen Backup System Revenue Market Share by Type (2021-2026)

Table 11. Global Liquid Nitrogen Backup System Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Mobile

Table 13. Major Players of Fixed

Table 14. Global Liquid Nitrogen Backup System Sales by Structure (2021-2026) & (Units)

Table 15. Global Liquid Nitrogen Backup System Sales Market Share by Structure (2021-2026)

Table 16. Global Liquid Nitrogen Backup System Revenue by Structure (2021-2026) & (\$ million)

Table 17. Global Liquid Nitrogen Backup System Revenue Market Share by Structure (2021-2026)

Table 18. Global Liquid Nitrogen Backup System Sale Price by Structure (2021-2026) & (US\$/Unit)

Table 19. Major Players of Manual Switching

Table 20. Major Players of Semi-Automatic Switching

Table 21. Major Players of Fully Automatic Switching

Table 22. Global Liquid Nitrogen Backup System Sales by Switching Method (2021-2026) & (Units)

Table 23. Global Liquid Nitrogen Backup System Sales Market Share by Switching

Method (2021-2026)

Table 24. Global Liquid Nitrogen Backup System Revenue by Switching Method (2021-2026) & (\$ million)

Table 25. Global Liquid Nitrogen Backup System Revenue Market Share by Switching Method (2021-2026)

Table 26. Global Liquid Nitrogen Backup System Sale Price by Switching Method (2021-2026) & (US\$/Unit)

Table 27. Major Players of Self-Pressurizing Type

Table 28. Major Players of External Boosting Type

Table 29. Major Players of Gravity Conveying Type

Table 30. Major Players of Vaporization Conveying Type

Table 31. Global Liquid Nitrogen Backup System Sales by Boosting Method (2021-2026) & (Units)

Table 32. Global Liquid Nitrogen Backup System Sales Market Share by Boosting Method (2021-2026)

Table 33. Global Liquid Nitrogen Backup System Revenue by Boosting Method (2021-2026) & (\$ million)

Table 34. Global Liquid Nitrogen Backup System Revenue Market Share by Boosting Method (2021-2026)

Table 35. Global Liquid Nitrogen Backup System Sale Price by Boosting Method (2021-2026) & (US\$/Unit)

Table 36. Global Liquid Nitrogen Backup System Sale by Application (2021-2026) & (Units)

Table 37. Global Liquid Nitrogen Backup System Sale Market Share by Application (2021-2026)

Table 38. Global Liquid Nitrogen Backup System Revenue by Application (2021-2026) & (\$ million)

Table 39. Global Liquid Nitrogen Backup System Revenue Market Share by Application (2021-2026)

Table 40. Global Liquid Nitrogen Backup System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 41. Global Liquid Nitrogen Backup System Sales by Company (2021-2026) & (Units)

Table 42. Global Liquid Nitrogen Backup System Sales Market Share by Company (2021-2026)

Table 43. Global Liquid Nitrogen Backup System Revenue by Company (2021-2026) & (\$ millions)

Table 44. Global Liquid Nitrogen Backup System Revenue Market Share by Company (2021-2026)

Table 45. Global Liquid Nitrogen Backup System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 46. Key Manufacturers Liquid Nitrogen Backup System Producing Area Distribution and Sales Area

Table 47. Players Liquid Nitrogen Backup System Products Offered

Table 48. Liquid Nitrogen Backup System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 49. New Products and Potential Entrants

Table 50. Market M&A Activity & Strategy

Table 51. Global Liquid Nitrogen Backup System Sales by Geographic Region (2021-2026) & (Units)

Table 52. Global Liquid Nitrogen Backup System Sales Market Share Geographic Region (2021-2026)

Table 53. Global Liquid Nitrogen Backup System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 54. Global Liquid Nitrogen Backup System Revenue Market Share by Geographic Region (2021-2026)

Table 55. Global Liquid Nitrogen Backup System Sales by Country/Region (2021-2026) & (Units)

Table 56. Global Liquid Nitrogen Backup System Sales Market Share by Country/Region (2021-2026)

Table 57. Global Liquid Nitrogen Backup System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 58. Global Liquid Nitrogen Backup System Revenue Market Share by Country/Region (2021-2026)

Table 59. Americas Liquid Nitrogen Backup System Sales by Country (2021-2026) & (Units)

Table 60. Americas Liquid Nitrogen Backup System Sales Market Share by Country (2021-2026)

Table 61. Americas Liquid Nitrogen Backup System Revenue by Country (2021-2026) & (\$ millions)

Table 62. Americas Liquid Nitrogen Backup System Sales by Type (2021-2026) & (Units)

Table 63. Americas Liquid Nitrogen Backup System Sales by Application (2021-2026) & (Units)

Table 64. APAC Liquid Nitrogen Backup System Sales by Region (2021-2026) & (Units)

Table 65. APAC Liquid Nitrogen Backup System Sales Market Share by Region (2021-2026)

Table 66. APAC Liquid Nitrogen Backup System Revenue by Region (2021-2026) & (\$

millions)

Table 67. APAC Liquid Nitrogen Backup System Sales by Type (2021-2026) & (Units)

Table 68. APAC Liquid Nitrogen Backup System Sales by Application (2021-2026) & (Units)

Table 69. Europe Liquid Nitrogen Backup System Sales by Country (2021-2026) & (Units)

Table 70. Europe Liquid Nitrogen Backup System Revenue by Country (2021-2026) & (\$ millions)

Table 71. Europe Liquid Nitrogen Backup System Sales by Type (2021-2026) & (Units)

Table 72. Europe Liquid Nitrogen Backup System Sales by Application (2021-2026) & (Units)

Table 73. Middle East & Africa Liquid Nitrogen Backup System Sales by Country (2021-2026) & (Units)

Table 74. Middle East & Africa Liquid Nitrogen Backup System Revenue Market Share by Country (2021-2026)

Table 75. Middle East & Africa Liquid Nitrogen Backup System Sales by Type (2021-2026) & (Units)

Table 76. Middle East & Africa Liquid Nitrogen Backup System Sales by Application (2021-2026) & (Units)

Table 77. Key Market Drivers & Growth Opportunities of Liquid Nitrogen Backup System

Table 78. Key Market Challenges & Risks of Liquid Nitrogen Backup System

Table 79. Key Industry Trends of Liquid Nitrogen Backup System

Table 80. Liquid Nitrogen Backup System Raw Material

Table 81. Key Suppliers of Raw Materials

Table 82. Liquid Nitrogen Backup System Distributors List

Table 83. Liquid Nitrogen Backup System Customer List

Table 84. Global Liquid Nitrogen Backup System Sales Forecast by Region (2027-2032) & (Units)

Table 85. Global Liquid Nitrogen Backup System Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Americas Liquid Nitrogen Backup System Sales Forecast by Country (2027-2032) & (Units)

Table 87. Americas Liquid Nitrogen Backup System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. APAC Liquid Nitrogen Backup System Sales Forecast by Region (2027-2032) & (Units)

Table 89. APAC Liquid Nitrogen Backup System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 90. Europe Liquid Nitrogen Backup System Sales Forecast by Country

(2027-2032) & (Units)

Table 91. Europe Liquid Nitrogen Backup System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Middle East & Africa Liquid Nitrogen Backup System Sales Forecast by Country (2027-2032) & (Units)

Table 93. Middle East & Africa Liquid Nitrogen Backup System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 94. Global Liquid Nitrogen Backup System Sales Forecast by Type (2027-2032) & (Units)

Table 95. Global Liquid Nitrogen Backup System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 96. Global Liquid Nitrogen Backup System Sales Forecast by Application (2027-2032) & (Units)

Table 97. Global Liquid Nitrogen Backup System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 98. Thermo Fisher Scientific Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 99. Thermo Fisher Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 100. Thermo Fisher Scientific Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Thermo Fisher Scientific Main Business

Table 102. Thermo Fisher Scientific Latest Developments

Table 103. Eppendorf Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 104. Eppendorf Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 105. Eppendorf Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Eppendorf Main Business

Table 107. Eppendorf Latest Developments

Table 108. PHC Corporation Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 109. PHC Corporation Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 110. PHC Corporation Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. PHC Corporation Main Business

Table 112. PHC Corporation Latest Developments

Table 113. Haier Biomedical Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 114. Haier Biomedical Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 115. Haier Biomedical Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Haier Biomedical Main Business

Table 117. Haier Biomedical Latest Developments

Table 118. ARCTIKO Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 119. ARCTIKO Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 120. ARCTIKO Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. ARCTIKO Main Business

Table 122. ARCTIKO Latest Developments

Table 123. Stirling Ultracold Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 124. Stirling Ultracold Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 125. Stirling Ultracold Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Stirling Ultracold Main Business

Table 127. Stirling Ultracold Latest Developments

Table 128. Helmer Scientific Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 129. Helmer Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 130. Helmer Scientific Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Helmer Scientific Main Business

Table 132. Helmer Scientific Latest Developments

Table 133. So-Low Environmental Equipment Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors

Table 134. So-Low Environmental Equipment Liquid Nitrogen Backup System Product Portfolios and Specifications

Table 135. So-Low Environmental Equipment Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. So-Low Environmental Equipment Main Business

- Table 137. So-Low Environmental Equipment Latest Developments
- Table 138. Zhongke Meiling Cryogenics Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors
- Table 139. Zhongke Meiling Cryogenics Liquid Nitrogen Backup System Product Portfolios and Specifications
- Table 140. Zhongke Meiling Cryogenics Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 141. Zhongke Meiling Cryogenics Main Business
- Table 142. Zhongke Meiling Cryogenics Latest Developments
- Table 143. BIOBASE Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors
- Table 144. BIOBASE Liquid Nitrogen Backup System Product Portfolios and Specifications
- Table 145. BIOBASE Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 146. BIOBASE Main Business
- Table 147. BIOBASE Latest Developments
- Table 148. Hampshire Controls Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors
- Table 149. Hampshire Controls Liquid Nitrogen Backup System Product Portfolios and Specifications
- Table 150. Hampshire Controls Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 151. Hampshire Controls Main Business
- Table 152. Hampshire Controls Latest Developments
- Table 153. Antech Scientific Basic Information, Liquid Nitrogen Backup System Manufacturing Base, Sales Area and Its Competitors
- Table 154. Antech Scientific Liquid Nitrogen Backup System Product Portfolios and Specifications
- Table 155. Antech Scientific Liquid Nitrogen Backup System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 156. Antech Scientific Main Business
- Table 157. Antech Scientific Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Liquid Nitrogen Backup System
- Figure 2. Liquid Nitrogen Backup System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Liquid Nitrogen Backup System Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Liquid Nitrogen Backup System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Liquid Nitrogen Backup System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Liquid Nitrogen Backup System Sales Market Share by Country/Region (2025)
- Figure 10. Liquid Nitrogen Backup System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Dewar Tank Type
- Figure 12. Product Picture of Atmospheric Pressure Tank Type
- Figure 13. Product Picture of Pressible Tank Type
- Figure 14. Product Picture of Others
- Figure 15. Global Liquid Nitrogen Backup System Sales Market Share by Type in 2026
- Figure 16. Global Liquid Nitrogen Backup System Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Mobile
- Figure 18. Product Picture of Fixed
- Figure 19. Global Liquid Nitrogen Backup System Sales Market Share by Structure in 2026
- Figure 20. Global Liquid Nitrogen Backup System Revenue Market Share by Structure (2021-2026)
- Figure 21. Product Picture of Manual Switching
- Figure 22. Product Picture of Semi-Automatic Switching
- Figure 23. Product Picture of Fully Automatic Switching
- Figure 24. Global Liquid Nitrogen Backup System Sales Market Share by Switching Method in 2026
- Figure 25. Global Liquid Nitrogen Backup System Revenue Market Share by Switching Method (2021-2026)
- Figure 26. Product Picture of Self-Pressurizing Type
- Figure 27. Product Picture of External Boosting Type

- Figure 28. Product Picture of Gravity Conveying Type
- Figure 29. Product Picture of Vaporization Conveying Type
- Figure 30. Global Liquid Nitrogen Backup System Sales Market Share by Boosting Method in 2026
- Figure 31. Global Liquid Nitrogen Backup System Revenue Market Share by Boosting Method (2021-2026)
- Figure 32. Liquid Nitrogen Backup System Consumed in Laboratory
- Figure 33. Global Liquid Nitrogen Backup System Market: Laboratory (2021-2026) & (Units)
- Figure 34. Liquid Nitrogen Backup System Consumed in Medical
- Figure 35. Global Liquid Nitrogen Backup System Market: Medical (2021-2026) & (Units)
- Figure 36. Liquid Nitrogen Backup System Consumed in Semiconductor
- Figure 37. Global Liquid Nitrogen Backup System Market: Semiconductor (2021-2026) & (Units)
- Figure 38. Liquid Nitrogen Backup System Consumed in Cold Chain
- Figure 39. Global Liquid Nitrogen Backup System Market: Cold Chain (2021-2026) & (Units)
- Figure 40. Liquid Nitrogen Backup System Consumed in Industrial Cryogenic
- Figure 41. Global Liquid Nitrogen Backup System Market: Industrial Cryogenic (2021-2026) & (Units)
- Figure 42. Global Liquid Nitrogen Backup System Sale Market Share by Application (2025)
- Figure 43. Global Liquid Nitrogen Backup System Revenue Market Share by Application in 2026
- Figure 44. Liquid Nitrogen Backup System Sales by Company in 2026 (Units)
- Figure 45. Global Liquid Nitrogen Backup System Sales Market Share by Company in 2026
- Figure 46. Liquid Nitrogen Backup System Revenue by Company in 2026 (\$ millions)
- Figure 47. Global Liquid Nitrogen Backup System Revenue Market Share by Company in 2026
- Figure 48. Global Liquid Nitrogen Backup System Sales Market Share by Geographic Region (2021-2026)
- Figure 49. Global Liquid Nitrogen Backup System Revenue Market Share by Geographic Region in 2026
- Figure 50. Americas Liquid Nitrogen Backup System Sales 2021-2026 (Units)
- Figure 51. Americas Liquid Nitrogen Backup System Revenue 2021-2026 (\$ millions)
- Figure 52. APAC Liquid Nitrogen Backup System Sales 2021-2026 (Units)
- Figure 53. APAC Liquid Nitrogen Backup System Revenue 2021-2026 (\$ millions)

- Figure 54. Europe Liquid Nitrogen Backup System Sales 2021-2026 (Units)
- Figure 55. Europe Liquid Nitrogen Backup System Revenue 2021-2026 (\$ millions)
- Figure 56. Middle East & Africa Liquid Nitrogen Backup System Sales 2021-2026 (Units)
- Figure 57. Middle East & Africa Liquid Nitrogen Backup System Revenue 2021-2026 (\$ millions)
- Figure 58. Americas Liquid Nitrogen Backup System Sales Market Share by Country in 2026
- Figure 59. Americas Liquid Nitrogen Backup System Revenue Market Share by Country (2021-2026)
- Figure 60. Americas Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)
- Figure 61. Americas Liquid Nitrogen Backup System Sales Market Share by Application (2021-2026)
- Figure 62. United States Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Canada Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Mexico Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Brazil Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 66. APAC Liquid Nitrogen Backup System Sales Market Share by Region in 2026
- Figure 67. APAC Liquid Nitrogen Backup System Revenue Market Share by Region (2021-2026)
- Figure 68. APAC Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)
- Figure 69. APAC Liquid Nitrogen Backup System Sales Market Share by Application (2021-2026)
- Figure 70. China Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Japan Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 72. South Korea Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Southeast Asia Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)
- Figure 74. India Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$

millions)

Figure 75. Australia Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 76. China Taiwan Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 77. Europe Liquid Nitrogen Backup System Sales Market Share by Country in 2026

Figure 78. Europe Liquid Nitrogen Backup System Revenue Market Share by Country (2021-2026)

Figure 79. Europe Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)

Figure 80. Europe Liquid Nitrogen Backup System Sales Market Share by Application (2021-2026)

Figure 81. Germany Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 82. France Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 83. UK Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 84. Italy Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Russia Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 86. Middle East & Africa Liquid Nitrogen Backup System Sales Market Share by Country (2021-2026)

Figure 87. Middle East & Africa Liquid Nitrogen Backup System Sales Market Share by Type (2021-2026)

Figure 88. Middle East & Africa Liquid Nitrogen Backup System Sales Market Share by Application (2021-2026)

Figure 89. Egypt Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 90. South Africa Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 91. Israel Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 92. Turkey Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 93. GCC Countries Liquid Nitrogen Backup System Revenue Growth 2021-2026 (\$ millions)

Figure 94. Manufacturing Cost Structure Analysis of Liquid Nitrogen Backup System in 2026

Figure 95. Manufacturing Process Analysis of Liquid Nitrogen Backup System

Figure 96. Industry Chain Structure of Liquid Nitrogen Backup System

Figure 97. Channels of Distribution

Figure 98. Global Liquid Nitrogen Backup System Sales Market Forecast by Region (2027-2032)

Figure 99. Global Liquid Nitrogen Backup System Revenue Market Share Forecast by Region (2027-2032)

Figure 100. Global Liquid Nitrogen Backup System Sales Market Share Forecast by Type (2027-2032)

Figure 101. Global Liquid Nitrogen Backup System Revenue Market Share Forecast by Type (2027-2032)

Figure 102. Global Liquid Nitrogen Backup System Sales Market Share Forecast by Application (2027-2032)

Figure 103. Global Liquid Nitrogen Backup System Revenue Market Share Forecast by Application (2027-2032)

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