

# Global Cryogenic Dilution Refrigerators Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/GF64BEB7F166EN.html>

Date: July 2023

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: GF64BEB7F166EN

## Abstracts

According to our (Global Info Research) latest study, the global Cryogenic Dilution Refrigerators market size was valued at USD 217.1 million in 2022 and is forecast to a readjusted size of USD 380 million by 2029 with a CAGR of 8.3% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

The dilution refrigerator is a high-end scientific research instrument that can provide an environment close to absolute zero. It is widely used in scientific research fields such as condensed matter physics, material science, particle physics and even astronomical detection. When the mixed solution of  $^3\text{He}$  and  $^4\text{He}$  is above 0.86K, the liquid  $^3\text{He}$  can be dissolved in the liquid  $^4\text{He}$  in any proportion, but when the temperature of the mixed solution drops below 0.86K, the mixed solution will separate into two phases, which contain more  $^3\text{He}$ . The phase is called concentrated phase, and the phase containing less  $^3\text{He}$  is called dilute phase. Any temperature lower than 0.86K corresponds to a certain dilute phase and concentrated phase of  $^3\text{He}$  content, and reaches phase equilibrium. When  $^3\text{He}$  atoms are removed from the dilute phase, in order to maintain the balance of the two phases, the  $^3\text{He}$  in the concentrated phase enters the dilute phase through the phase interface to supplement the removed  $^3\text{He}$  atoms. It can be calculated that the enthalpy and entropy of  $^3\text{He}$  in the dilute phase are much larger than those in the concentrated phase. Therefore, this dilution process needs to absorb heat, and this endothermic phenomenon is used to make a dilution refrigerator.

This report is a detailed and comprehensive analysis for global Cryogenic Dilution Refrigerators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

#### Key Features:

Global Cryogenic Dilution Refrigerators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Cryogenic Dilution Refrigerators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Cryogenic Dilution Refrigerators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Cryogenic Dilution Refrigerators market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cryogenic Dilution Refrigerators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cryogenic Dilution Refrigerators 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 Bluefors, Oxford Instruments, Janis, Qblox and Zurich Instruments, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

## Market Segmentation

Cryogenic Dilution Refrigerators market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Dry Dilution Refrigerator

Wet Dilution Refrigerator

### Market segment by Application

Condensed Matter

Quantum Computing

Nanomaterials

Astronomical Observation

Others

### Major players covered

Bluefors

Oxford Instruments

Janis

Qblox

Zurich Instruments

Saimo (Shanghai) Instrument Co., Ltd.

Cryogenic

Fly Measuring Instrument

Linkland (Tianjin)

CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd.

Guoyi Quantum (Hefei) Technology Co., Ltd.

Leiden

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cryogenic Dilution Refrigerators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cryogenic Dilution Refrigerators, with price, sales, revenue and global market share of Cryogenic Dilution Refrigerators from 2018 to 2023.

Chapter 3, the Cryogenic Dilution Refrigerators competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cryogenic Dilution Refrigerators breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Cryogenic Dilution Refrigerators market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cryogenic Dilution Refrigerators.

Chapter 14 and 15, to describe Cryogenic Dilution Refrigerators sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Cryogenic Dilution Refrigerators

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Cryogenic Dilution Refrigerators Consumption Value by Type: 2018 Versus 2022 Versus 2029

1.3.2 Dry Dilution Refrigerator

1.3.3 Wet Dilution Refrigerator

1.4 Market Analysis by Application

1.4.1 Overview: Global Cryogenic Dilution Refrigerators Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 Condensed Matter

1.4.3 Quantum Computing

1.4.4 Nanomaterials

1.4.5 Astronomical Observation

1.4.6 Others

1.5 Global Cryogenic Dilution Refrigerators Market Size & Forecast

1.5.1 Global Cryogenic Dilution Refrigerators Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Cryogenic Dilution Refrigerators Sales Quantity (2018-2029)

1.5.3 Global Cryogenic Dilution Refrigerators Average Price (2018-2029)

### 2 MANUFACTURERS PROFILES

2.1 Bluefors

2.1.1 Bluefors Details

2.1.2 Bluefors Major Business

2.1.3 Bluefors Cryogenic Dilution Refrigerators Product and Services

2.1.4 Bluefors Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 Bluefors Recent Developments/Updates

2.2 Oxford Instruments

2.2.1 Oxford Instruments Details

2.2.2 Oxford Instruments Major Business

2.2.3 Oxford Instruments Cryogenic Dilution Refrigerators Product and Services

2.2.4 Oxford Instruments Cryogenic Dilution Refrigerators Sales Quantity, Average

## Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.2.5 Oxford Instruments Recent Developments/Updates

## 2.3 Janis

### 2.3.1 Janis Details

### 2.3.2 Janis Major Business

### 2.3.3 Janis Cryogenic Dilution Refrigerators Product and Services

### 2.3.4 Janis Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.3.5 Janis Recent Developments/Updates

## 2.4 Qblox

### 2.4.1 Qblox Details

### 2.4.2 Qblox Major Business

### 2.4.3 Qblox Cryogenic Dilution Refrigerators Product and Services

### 2.4.4 Qblox Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.4.5 Qblox Recent Developments/Updates

## 2.5 Zurich Instruments

### 2.5.1 Zurich Instruments Details

### 2.5.2 Zurich Instruments Major Business

### 2.5.3 Zurich Instruments Cryogenic Dilution Refrigerators Product and Services

### 2.5.4 Zurich Instruments Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.5.5 Zurich Instruments Recent Developments/Updates

## 2.6 Saimo (Shanghai) Instrument Co., Ltd.

### 2.6.1 Saimo (Shanghai) Instrument Co., Ltd. Details

### 2.6.2 Saimo (Shanghai) Instrument Co., Ltd. Major Business

### 2.6.3 Saimo (Shanghai) Instrument Co., Ltd. Cryogenic Dilution Refrigerators Product and Services

### 2.6.4 Saimo (Shanghai) Instrument Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.6.5 Saimo (Shanghai) Instrument Co., Ltd. Recent Developments/Updates

## 2.7 Cryogenic

### 2.7.1 Cryogenic Details

### 2.7.2 Cryogenic Major Business

### 2.7.3 Cryogenic Cryogenic Dilution Refrigerators Product and Services

### 2.7.4 Cryogenic Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

### 2.7.5 Cryogenic Recent Developments/Updates

## 2.8 Fly Measuring Instrument



- 2.8.1 Fly Measuring Instrument Details
- 2.8.2 Fly Measuring Instrument Major Business
- 2.8.3 Fly Measuring Instrument Cryogenic Dilution Refrigerators Product and Services
- 2.8.4 Fly Measuring Instrument Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 Fly Measuring Instrument Recent Developments/Updates
- 2.9 Linkland (Tianjin)
  - 2.9.1 Linkland (Tianjin) Details
  - 2.9.2 Linkland (Tianjin) Major Business
  - 2.9.3 Linkland (Tianjin) Cryogenic Dilution Refrigerators Product and Services
  - 2.9.4 Linkland (Tianjin) Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.9.5 Linkland (Tianjin) Recent Developments/Updates
- 2.10 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd.
  - 2.10.1 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Details
  - 2.10.2 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Major Business
  - 2.10.3 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Cryogenic Dilution Refrigerators Product and Services
  - 2.10.4 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.10.5 CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Recent Developments/Updates
- 2.11 Guoyi Quantum (Hefei) Technology Co., Ltd.
  - 2.11.1 Guoyi Quantum (Hefei) Technology Co., Ltd. Details
  - 2.11.2 Guoyi Quantum (Hefei) Technology Co., Ltd. Major Business
  - 2.11.3 Guoyi Quantum (Hefei) Technology Co., Ltd. Cryogenic Dilution Refrigerators Product and Services
  - 2.11.4 Guoyi Quantum (Hefei) Technology Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.11.5 Guoyi Quantum (Hefei) Technology Co., Ltd. Recent Developments/Updates
- 2.12 Leiden
  - 2.12.1 Leiden Details
  - 2.12.2 Leiden Major Business
  - 2.12.3 Leiden Cryogenic Dilution Refrigerators Product and Services
  - 2.12.4 Leiden Cryogenic Dilution Refrigerators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.12.5 Leiden Recent Developments/Updates



### **3 COMPETITIVE ENVIRONMENT: CRYOGENIC DILUTION REFRIGERATORS BY MANUFACTURER**

- 3.1 Global Cryogenic Dilution Refrigerators Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Cryogenic Dilution Refrigerators Revenue by Manufacturer (2018-2023)
- 3.3 Global Cryogenic Dilution Refrigerators Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
  - 3.4.1 Producer Shipments of Cryogenic Dilution Refrigerators by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Cryogenic Dilution Refrigerators Manufacturer Market Share in 2022
  - 3.4.2 Top 6 Cryogenic Dilution Refrigerators Manufacturer Market Share in 2022
- 3.5 Cryogenic Dilution Refrigerators Market: Overall Company Footprint Analysis
  - 3.5.1 Cryogenic Dilution Refrigerators Market: Region Footprint
  - 3.5.2 Cryogenic Dilution Refrigerators Market: Company Product Type Footprint
  - 3.5.3 Cryogenic Dilution Refrigerators Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Cryogenic Dilution Refrigerators Market Size by Region
  - 4.1.1 Global Cryogenic Dilution Refrigerators Sales Quantity by Region (2018-2029)
  - 4.1.2 Global Cryogenic Dilution Refrigerators Consumption Value by Region (2018-2029)
  - 4.1.3 Global Cryogenic Dilution Refrigerators Average Price by Region (2018-2029)
- 4.2 North America Cryogenic Dilution Refrigerators Consumption Value (2018-2029)
- 4.3 Europe Cryogenic Dilution Refrigerators Consumption Value (2018-2029)
- 4.4 Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value (2018-2029)
- 4.5 South America Cryogenic Dilution Refrigerators Consumption Value (2018-2029)
- 4.6 Middle East and Africa Cryogenic Dilution Refrigerators Consumption Value (2018-2029)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2029)
- 5.2 Global Cryogenic Dilution Refrigerators Consumption Value by Type (2018-2029)
- 5.3 Global Cryogenic Dilution Refrigerators Average Price by Type (2018-2029)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2029)

6.2 Global Cryogenic Dilution Refrigerators Consumption Value by Application (2018-2029)

6.3 Global Cryogenic Dilution Refrigerators Average Price by Application (2018-2029)

## **7 NORTH AMERICA**

7.1 North America Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2029)

7.2 North America Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2029)

7.3 North America Cryogenic Dilution Refrigerators Market Size by Country

7.3.1 North America Cryogenic Dilution Refrigerators Sales Quantity by Country (2018-2029)

7.3.2 North America Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

## **8 EUROPE**

8.1 Europe Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2029)

8.2 Europe Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2029)

8.3 Europe Cryogenic Dilution Refrigerators Market Size by Country

8.3.1 Europe Cryogenic Dilution Refrigerators Sales Quantity by Country (2018-2029)

8.3.2 Europe Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Application

(2018-2029)

### 9.3 Asia-Pacific Cryogenic Dilution Refrigerators Market Size by Region

#### 9.3.1 Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Region

(2018-2029)

#### 9.3.2 Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value by Region

(2018-2029)

#### 9.3.3 China Market Size and Forecast (2018-2029)

#### 9.3.4 Japan Market Size and Forecast (2018-2029)

#### 9.3.5 Korea Market Size and Forecast (2018-2029)

#### 9.3.6 India Market Size and Forecast (2018-2029)

#### 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

#### 9.3.8 Australia Market Size and Forecast (2018-2029)

## 10 SOUTH AMERICA

### 10.1 South America Cryogenic Dilution Refrigerators Sales Quantity by Type

(2018-2029)

### 10.2 South America Cryogenic Dilution Refrigerators Sales Quantity by Application

(2018-2029)

### 10.3 South America Cryogenic Dilution Refrigerators Market Size by Country

#### 10.3.1 South America Cryogenic Dilution Refrigerators Sales Quantity by Country

(2018-2029)

#### 10.3.2 South America Cryogenic Dilution Refrigerators Consumption Value by Country

(2018-2029)

#### 10.3.3 Brazil Market Size and Forecast (2018-2029)

#### 10.3.4 Argentina Market Size and Forecast (2018-2029)

## 11 MIDDLE EAST & AFRICA

### 11.1 Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Type

(2018-2029)

### 11.2 Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Application

(2018-2029)

### 11.3 Middle East & Africa Cryogenic Dilution Refrigerators Market Size by Country

#### 11.3.1 Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Country

(2018-2029)

#### 11.3.2 Middle East & Africa Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2029)

#### 11.3.3 Turkey Market Size and Forecast (2018-2029)

- 11.3.4 Egypt Market Size and Forecast (2018-2029)
- 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
- 11.3.6 South Africa Market Size and Forecast (2018-2029)

## **12 MARKET DYNAMICS**

- 12.1 Cryogenic Dilution Refrigerators Market Drivers
- 12.2 Cryogenic Dilution Refrigerators Market Restraints
- 12.3 Cryogenic Dilution Refrigerators Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
  - 12.5.1 Influence of COVID-19
  - 12.5.2 Influence of Russia-Ukraine War

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Cryogenic Dilution Refrigerators and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Cryogenic Dilution Refrigerators
- 13.3 Cryogenic Dilution Refrigerators Production Process
- 13.4 Cryogenic Dilution Refrigerators Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Cryogenic Dilution Refrigerators Typical Distributors
- 14.3 Cryogenic Dilution Refrigerators Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Cryogenic Dilution Refrigerators Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Cryogenic Dilution Refrigerators Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Bluefors Basic Information, Manufacturing Base and Competitors

Table 4. Bluefors Major Business

Table 5. Bluefors Cryogenic Dilution Refrigerators Product and Services

Table 6. Bluefors Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Bluefors Recent Developments/Updates

Table 8. Oxford Instruments Basic Information, Manufacturing Base and Competitors

Table 9. Oxford Instruments Major Business

Table 10. Oxford Instruments Cryogenic Dilution Refrigerators Product and Services

Table 11. Oxford Instruments Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Oxford Instruments Recent Developments/Updates

Table 13. Janis Basic Information, Manufacturing Base and Competitors

Table 14. Janis Major Business

Table 15. Janis Cryogenic Dilution Refrigerators Product and Services

Table 16. Janis Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Janis Recent Developments/Updates

Table 18. Qblox Basic Information, Manufacturing Base and Competitors

Table 19. Qblox Major Business

Table 20. Qblox Cryogenic Dilution Refrigerators Product and Services

Table 21. Qblox Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Qblox Recent Developments/Updates

Table 23. Zurich Instruments Basic Information, Manufacturing Base and Competitors

Table 24. Zurich Instruments Major Business

Table 25. Zurich Instruments Cryogenic Dilution Refrigerators Product and Services

Table 26. Zurich Instruments Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)



Table 27. Zurich Instruments Recent Developments/Updates

Table 28. Saimo (Shanghai) Instrument Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 29. Saimo (Shanghai) Instrument Co., Ltd. Major Business

Table 30. Saimo (Shanghai) Instrument Co., Ltd. Cryogenic Dilution Refrigerators Product and Services

Table 31. Saimo (Shanghai) Instrument Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Saimo (Shanghai) Instrument Co., Ltd. Recent Developments/Updates

Table 33. Cryogenic Basic Information, Manufacturing Base and Competitors

Table 34. Cryogenic Major Business

Table 35. Cryogenic Cryogenic Dilution Refrigerators Product and Services

Table 36. Cryogenic Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Cryogenic Recent Developments/Updates

Table 38. Fly Measuring Instrument Basic Information, Manufacturing Base and Competitors

Table 39. Fly Measuring Instrument Major Business

Table 40. Fly Measuring Instrument Cryogenic Dilution Refrigerators Product and Services

Table 41. Fly Measuring Instrument Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. Fly Measuring Instrument Recent Developments/Updates

Table 43. Linkland (Tianjin) Basic Information, Manufacturing Base and Competitors

Table 44. Linkland (Tianjin) Major Business

Table 45. Linkland (Tianjin) Cryogenic Dilution Refrigerators Product and Services

Table 46. Linkland (Tianjin) Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. Linkland (Tianjin) Recent Developments/Updates

Table 48. CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 49. CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Major Business

Table 50. CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Cryogenic Dilution Refrigerators Product and Services

Table 51. CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD



Million), Gross Margin and Market Share (2018-2023)

Table 52. CSIC Pengli (Nanjing) Cryogenic Technology Co., Ltd. Recent Developments/Updates

Table 53. Guoyi Quantum (Hefei) Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 54. Guoyi Quantum (Hefei) Technology Co., Ltd. Major Business

Table 55. Guoyi Quantum (Hefei) Technology Co., Ltd. Cryogenic Dilution Refrigerators Product and Services

Table 56. Guoyi Quantum (Hefei) Technology Co., Ltd. Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Guoyi Quantum (Hefei) Technology Co., Ltd. Recent Developments/Updates

Table 58. Leiden Basic Information, Manufacturing Base and Competitors

Table 59. Leiden Major Business

Table 60. Leiden Cryogenic Dilution Refrigerators Product and Services

Table 61. Leiden Cryogenic Dilution Refrigerators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Leiden Recent Developments/Updates

Table 63. Global Cryogenic Dilution Refrigerators Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 64. Global Cryogenic Dilution Refrigerators Revenue by Manufacturer (2018-2023) & (USD Million)

Table 65. Global Cryogenic Dilution Refrigerators Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 66. Market Position of Manufacturers in Cryogenic Dilution Refrigerators, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 67. Head Office and Cryogenic Dilution Refrigerators Production Site of Key Manufacturer

Table 68. Cryogenic Dilution Refrigerators Market: Company Product Type Footprint

Table 69. Cryogenic Dilution Refrigerators Market: Company Product Application Footprint

Table 70. Cryogenic Dilution Refrigerators New Market Entrants and Barriers to Market Entry

Table 71. Cryogenic Dilution Refrigerators Mergers, Acquisition, Agreements, and Collaborations

Table 72. Global Cryogenic Dilution Refrigerators Sales Quantity by Region (2018-2023) & (K Units)

Table 73. Global Cryogenic Dilution Refrigerators Sales Quantity by Region (2024-2029) & (K Units)

Table 74. Global Cryogenic Dilution Refrigerators Consumption Value by Region (2018-2023) & (USD Million)

Table 75. Global Cryogenic Dilution Refrigerators Consumption Value by Region (2024-2029) & (USD Million)

Table 76. Global Cryogenic Dilution Refrigerators Average Price by Region (2018-2023) & (US\$/Unit)

Table 77. Global Cryogenic Dilution Refrigerators Average Price by Region (2024-2029) & (US\$/Unit)

Table 78. Global Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)

Table 79. Global Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)

Table 80. Global Cryogenic Dilution Refrigerators Consumption Value by Type (2018-2023) & (USD Million)

Table 81. Global Cryogenic Dilution Refrigerators Consumption Value by Type (2024-2029) & (USD Million)

Table 82. Global Cryogenic Dilution Refrigerators Average Price by Type (2018-2023) & (US\$/Unit)

Table 83. Global Cryogenic Dilution Refrigerators Average Price by Type (2024-2029) & (US\$/Unit)

Table 84. Global Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)

Table 85. Global Cryogenic Dilution Refrigerators Sales Quantity by Application (2024-2029) & (K Units)

Table 86. Global Cryogenic Dilution Refrigerators Consumption Value by Application (2018-2023) & (USD Million)

Table 87. Global Cryogenic Dilution Refrigerators Consumption Value by Application (2024-2029) & (USD Million)

Table 88. Global Cryogenic Dilution Refrigerators Average Price by Application (2018-2023) & (US\$/Unit)

Table 89. Global Cryogenic Dilution Refrigerators Average Price by Application (2024-2029) & (US\$/Unit)

Table 90. North America Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)

Table 91. North America Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)

Table 92. North America Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)

Table 93. North America Cryogenic Dilution Refrigerators Sales Quantity by Application

(2024-2029) & (K Units)

Table 94. North America Cryogenic Dilution Refrigerators Sales Quantity by Country (2018-2023) & (K Units)

Table 95. North America Cryogenic Dilution Refrigerators Sales Quantity by Country (2024-2029) & (K Units)

Table 96. North America Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2023) & (USD Million)

Table 97. North America Cryogenic Dilution Refrigerators Consumption Value by Country (2024-2029) & (USD Million)

Table 98. Europe Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)

Table 99. Europe Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)

Table 100. Europe Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)

Table 101. Europe Cryogenic Dilution Refrigerators Sales Quantity by Application (2024-2029) & (K Units)

Table 102. Europe Cryogenic Dilution Refrigerators Sales Quantity by Country (2018-2023) & (K Units)

Table 103. Europe Cryogenic Dilution Refrigerators Sales Quantity by Country (2024-2029) & (K Units)

Table 104. Europe Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2023) & (USD Million)

Table 105. Europe Cryogenic Dilution Refrigerators Consumption Value by Country (2024-2029) & (USD Million)

Table 106. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)

Table 107. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)

Table 108. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)

Table 109. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Application (2024-2029) & (K Units)

Table 110. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Region (2018-2023) & (K Units)

Table 111. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity by Region (2024-2029) & (K Units)

Table 112. Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value by Region (2018-2023) & (USD Million)

- Table 113. Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value by Region (2024-2029) & (USD Million)
- Table 114. South America Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)
- Table 115. South America Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)
- Table 116. South America Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)
- Table 117. South America Cryogenic Dilution Refrigerators Sales Quantity by Application (2024-2029) & (K Units)
- Table 118. South America Cryogenic Dilution Refrigerators Sales Quantity by Country (2018-2023) & (K Units)
- Table 119. South America Cryogenic Dilution Refrigerators Sales Quantity by Country (2024-2029) & (K Units)
- Table 120. South America Cryogenic Dilution Refrigerators Consumption Value by Country (2018-2023) & (USD Million)
- Table 121. South America Cryogenic Dilution Refrigerators Consumption Value by Country (2024-2029) & (USD Million)
- Table 122. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Type (2018-2023) & (K Units)
- Table 123. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Type (2024-2029) & (K Units)
- Table 124. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Application (2018-2023) & (K Units)
- Table 125. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Application (2024-2029) & (K Units)
- Table 126. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Region (2018-2023) & (K Units)
- Table 127. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity by Region (2024-2029) & (K Units)
- Table 128. Middle East & Africa Cryogenic Dilution Refrigerators Consumption Value by Region (2018-2023) & (USD Million)
- Table 129. Middle East & Africa Cryogenic Dilution Refrigerators Consumption Value by Region (2024-2029) & (USD Million)
- Table 130. Cryogenic Dilution Refrigerators Raw Material
- Table 131. Key Manufacturers of Cryogenic Dilution Refrigerators Raw Materials
- Table 132. Cryogenic Dilution Refrigerators Typical Distributors
- Table 133. Cryogenic Dilution Refrigerators Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Cryogenic Dilution Refrigerators Picture

Figure 2. Global Cryogenic Dilution Refrigerators Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Type in 2022

Figure 4. Dry Dilution Refrigerator Examples

Figure 5. Wet Dilution Refrigerator Examples

Figure 6. Global Cryogenic Dilution Refrigerators Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 7. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Application in 2022

Figure 8. Condensed Matter Examples

Figure 9. Quantum Computing Examples

Figure 10. Nanomaterials Examples

Figure 11. Astronomical Observation Examples

Figure 12. Others Examples

Figure 13. Global Cryogenic Dilution Refrigerators Consumption Value, (USD Million): 2018 & 2022 & 2029

Figure 14. Global Cryogenic Dilution Refrigerators Consumption Value and Forecast (2018-2029) & (USD Million)

Figure 15. Global Cryogenic Dilution Refrigerators Sales Quantity (2018-2029) & (K Units)

Figure 16. Global Cryogenic Dilution Refrigerators Average Price (2018-2029) & (US\$/Unit)

Figure 17. Global Cryogenic Dilution Refrigerators Sales Quantity Market Share by Manufacturer in 2022

Figure 18. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Manufacturer in 2022

Figure 19. Producer Shipments of Cryogenic Dilution Refrigerators by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 20. Top 3 Cryogenic Dilution Refrigerators Manufacturer (Consumption Value) Market Share in 2022

Figure 21. Top 6 Cryogenic Dilution Refrigerators Manufacturer (Consumption Value) Market Share in 2022

Figure 22. Global Cryogenic Dilution Refrigerators Sales Quantity Market Share by



Region (2018-2029)

Figure 23. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Region (2018-2029)

Figure 24. North America Cryogenic Dilution Refrigerators Consumption Value (2018-2029) & (USD Million)

Figure 25. Europe Cryogenic Dilution Refrigerators Consumption Value (2018-2029) & (USD Million)

Figure 26. Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value (2018-2029) & (USD Million)

Figure 27. South America Cryogenic Dilution Refrigerators Consumption Value (2018-2029) & (USD Million)

Figure 28. Middle East & Africa Cryogenic Dilution Refrigerators Consumption Value (2018-2029) & (USD Million)

Figure 29. Global Cryogenic Dilution Refrigerators Sales Quantity Market Share by Type (2018-2029)

Figure 30. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Type (2018-2029)

Figure 31. Global Cryogenic Dilution Refrigerators Average Price by Type (2018-2029) & (US\$/Unit)

Figure 32. Global Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 33. Global Cryogenic Dilution Refrigerators Consumption Value Market Share by Application (2018-2029)

Figure 34. Global Cryogenic Dilution Refrigerators Average Price by Application (2018-2029) & (US\$/Unit)

Figure 35. North America Cryogenic Dilution Refrigerators Sales Quantity Market Share by Type (2018-2029)

Figure 36. North America Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 37. North America Cryogenic Dilution Refrigerators Sales Quantity Market Share by Country (2018-2029)

Figure 38. North America Cryogenic Dilution Refrigerators Consumption Value Market Share by Country (2018-2029)

Figure 39. United States Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Canada Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Mexico Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Europe Cryogenic Dilution Refrigerators Sales Quantity Market Share by Type (2018-2029)

Figure 43. Europe Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 44. Europe Cryogenic Dilution Refrigerators Sales Quantity Market Share by Country (2018-2029)

Figure 45. Europe Cryogenic Dilution Refrigerators Consumption Value Market Share by Country (2018-2029)

Figure 46. Germany Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. France Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. United Kingdom Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Russia Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Italy Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity Market Share by Type (2018-2029)

Figure 52. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 53. Asia-Pacific Cryogenic Dilution Refrigerators Sales Quantity Market Share by Region (2018-2029)

Figure 54. Asia-Pacific Cryogenic Dilution Refrigerators Consumption Value Market Share by Region (2018-2029)

Figure 55. China Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Japan Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Korea Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. India Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Southeast Asia Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Australia Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. South America Cryogenic Dilution Refrigerators Sales Quantity Market Share



by Type (2018-2029)

Figure 62. South America Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 63. South America Cryogenic Dilution Refrigerators Sales Quantity Market Share by Country (2018-2029)

Figure 64. South America Cryogenic Dilution Refrigerators Consumption Value Market Share by Country (2018-2029)

Figure 65. Brazil Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Argentina Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity Market Share by Type (2018-2029)

Figure 68. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity Market Share by Application (2018-2029)

Figure 69. Middle East & Africa Cryogenic Dilution Refrigerators Sales Quantity Market Share by Region (2018-2029)

Figure 70. Middle East & Africa Cryogenic Dilution Refrigerators Consumption Value Market Share by Region (2018-2029)

Figure 71. Turkey Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Egypt Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Saudi Arabia Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. South Africa Cryogenic Dilution Refrigerators Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Cryogenic Dilution Refrigerators Market Drivers

Figure 76. Cryogenic Dilution Refrigerators Market Restraints

Figure 77. Cryogenic Dilution Refrigerators Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Cryogenic Dilution Refrigerators in 2022

Figure 80. Manufacturing Process Analysis of Cryogenic Dilution Refrigerators

Figure 81. Cryogenic Dilution Refrigerators Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

## I would like to order

Product name: Global Cryogenic Dilution Refrigerators Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

Product link: <https://marketpublishers.com/r/GF64BEB7F166EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF64BEB7F166EN.html>

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

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

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

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

