

# **Cryostat Market by Type (Closed-Cycle, Continuous-Flow, Bath, Multistage), System Component (Dewars, Transfer Tubes, Gas Flow Pumps, Temperature Controllers, High Vacuum Pumps, Microtome Blades), Cryogen, Application & Region - Global Forecast to 2027**

<https://marketpublishers.com/r/C8A5BE05F92EN.html>

Date: September 2022

Pages: 143

Price: US\$ 4,950.00 (Single User License)

ID: C8A5BE05F92EN

## **Abstracts**

The cryostat market is projected to reach USD 2.8 billion by 2027 from USD 2.2 billion in 2022; it is expected to grow at a CAGR of 4.9% from 2022 to 2027.

Cryostats keep tissue samples at a very low temperature by thermally isolating them from the outside temperature. This is attained by a combination of vacuum insulation, radiation shields, superinsulation to reduce radiation heat transfer, and low thermal conductivity between outside temperature and cryogenic temperatures. Hence, cryostats have applications in various industries, such as healthcare, energy & power, aerospace, metallurgy, biotechnology, forensic science, and marine biology. The value chain of the cryostat market is a broad network. The entire chain is an interconnection between various players operating in the market and the flow of goods & services. For the supply-side analysis of the cryostat market, the important contributors to the market value chain include R&D, manufacturing & assembly, system integration, distribution, end users, and post-sale services. According to Porter's five forces analysis, the intensity of competitive rivalry and bargaining power of buyers have a medium impact on the cryostat market due to the consistent demand for cryostats from various customers for a wide range of applications. The major players in the cryostat market include Leica Biosystems (Germany), Cryomech Inc. (US), Amos Scientific (Australia), MEDITE (Germany), Bright Instruments (UK), Dakewe Medical (China), Jinhua YIDI Medical Appliance Co., Ltd. (China), SLEE Medical GmbH (Germany), Advanced

Research Systems (US), Lake Shore Cryotronics (US), EpreDia (US), SM Scientific Instruments (India), Medimeas (India), Hacker Instruments & Industries (US), Boeckeler Instruments Inc. (US), Histo-line Laboratories (Italy), Lupetec (Brazil), SciLab Co. Ltd. (France), Cryofab, Inc. (US), Precision Cryogenics (US), attocube systems AG (Germany), AMETEK Scientific Instruments (US), Mirion Technologies (Georgia), BIOBASE (Germany), and Sipcon Instrument Industries (India).

The bath cryostat segment is expected to grow at the highest CAGR during the forecast period

Bath cryostats are suitable for cooling cryogenic detectors. In this, long hold time, optical access, and easy access to the cryostat cold plate are required. These cryostats can contain large supplies of cryogenics for a significant period of operation. There is no need to refill the cryostat continuously from the storage dewar. The hold time depends on several factors, such as sample size, experimental heat load, and cryogen consumption rate. In this type of cryostat, the cryogen is stored in a cryostat tank directly attached to the detector head. Since the coolant is stored in the tank or the bath, it is called a bath cryostat. The cryogen vapor, which boils away from the bath effectively, cools thermal shields outside the bath. These cryostats are typically designed for an operating period ranging from 10 hours to 4 months.

The microtome blade segment of system component is expected to grow at the highest CAGR during the forecast period

The market for microtome blades, which is the second largest segment, is expected to hold the highest CAGR during the forecast period. Microtomes are used to cut tissues and cells to the desired thickness in pathological or laboratory tests. A microtome is a tool used inside a cryostat to cut extremely thin slices of tissue samples or specimens. The major applications of a microtome include histology, frozen section procedure, microscopy, and spectroscopy. Various types of microtomes are commercially available, including sledge microtomes, rotary microtomes, ultra-microtomes, laser microtomes, and vibrating microtomes. Microtomes made of steel, glass, or diamond blades are used depending on the specimens to be sliced and their required thickness. There are a certain number of blades in dispensers, which have the feature of ejecting the used blades. Leica Biosystems is one of the key players that offer microtome blades. The Leica DB80 series is a Microtome Blade Line, cutting the thin sections of human tissue specimens needed for diagnostic clarity. They feature an advanced shape, premium finish, and edge-to-edge consistency.

### Breakdown of profiles of primary participants:

By Company Type: Tier 1 = 30%, Tier 2 = 50%, and Tier 3 = 20%

By Designation: C-level Executives = 25%, Directors = 35%, and Others = 40%

By Region: North America = 35%, Europe = 30%, APAC = 30%, and RoW = 10%

### Research Coverage:

This report segments the Cryostat Market by Type (Closed-Cycle, Continuous-Flow, Bath, Multistage), System Component (Dewars, Transfer Tubes, Gas Flow Pumps, Temperature Controllers, High Vacuum Pumps, Microtome Blades), Cryogen, Application, & Region - Global Forecast to 2027

### Reasons to Buy the Report:

This report includes statistics pertaining to the cryostat market based on type, system component, cryogen, application, and region.

Major drivers, restraints, opportunities, and challenges for the cryostat market have been provided in detail in this report

The report includes illustrative segmentation, analysis, and forecast for the cryostat market based on its segments.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
  - 1.2.1 GENERAL INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
  - 1.3.1 MARKET COVERED
- FIGURE 1 MARKET SEGMENTATION
  - 1.3.2 GEOGRAPHIC ANALYSIS
  - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS
- 1.8 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - FIGURE 2 CRYOSTAT MARKET: RESEARCH DESIGN
    - 2.1.1 SECONDARY DATA
      - 2.1.1.1 Key data from secondary sources
      - 2.1.1.2 Key secondary sources
    - 2.1.2 PRIMARY DATA
      - 2.1.2.1 Key data from primary sources
      - 2.1.2.2 Breakdown of primary interviews
      - 2.1.2.3 Key industry insights
    - 2.1.3 SECONDARY AND PRIMARY RESEARCH
- 2.2 MARKET SIZE ESTIMATION
  - FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 3 (DEMAND SIDE) —BOTTOM-UP ESTIMATION OF CRYOSTAT MARKET BY GEOGRAPHY
    - 2.2.1 BOTTOM-UP APPROACH
      - 2.2.1.1 Approach for capturing market size by bottom-up analysis
  - FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
    - 2.2.2 TOP-DOWN APPROACH
      - 2.2.2.1 Approach for capturing market size by top-down analysis
  - FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 MARKET SHARE ESTIMATION

2.4 DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS AND LIMITATIONS

2.5.1 ASSUMPTIONS

2.5.2 LIMITATIONS

### **3 EXECUTIVE SUMMARY**

FIGURE 7 DEWAR SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 8 HEALTHCARE APPLICATION SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 9 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

### **4 PREMIUM INSIGHTS**

4.1 GROWTH OPPORTUNITIES IN CRYOSTAT MARKET

FIGURE 10 ASIA PACIFIC TO EMERGE AS LUCRATIVE GROWTH AVENUE FOR CRYOSTAT MARKET

4.2 CRYOSTAT MARKET, BY TYPE

FIGURE 11 BATH CRYOSTATS SEGMENT TO LEAD CRYOSTAT MARKET DURING FORECAST PERIOD

4.3 CRYOSTAT MARKET, BY CRYOGEN

FIGURE 12 NITROGEN SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

4.4 CRYOSTAT MARKET IN ASIA PACIFIC, BY APPLICATION & COUNTRY

FIGURE 13 HEALTHCARE APPLICATION AND CHINA TO ACCOUNT FOR LARGEST SHARES IN ASIA PACIFIC IN 2027

4.5 CRYOSTAT MARKET, BY COUNTRY

FIGURE 14 CRYOSTAT MARKET TO RECORD HIGHEST CAGR IN INDIA DURING FORECAST PERIOD

### **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 EVOLUTION

FIGURE 15 EVOLUTION OF CRYOSTATS

## 5.3 MARKET DYNAMICS

### FIGURE 16 CRYOSTAT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.3.1 DRIVERS

5.3.1.1 High demand for effective healthcare services in developing economies

5.3.1.2 Increase in production of liquefied natural gas

### FIGURE 17 CRYOSTAT MARKET DRIVERS: IMPACT ANALYSIS

#### 5.3.2 RESTRAINTS

5.3.2.1 High-input power consumption

### TABLE 1 VARIATION IN POWER CONSUMPTION BY CRYOSTATS MANUFACTURED BY LEICA BIOSYSTEMS (GERMANY)

### FIGURE 18 CRYOSTAT MARKET RESTRAINTS: IMPACT ANALYSIS

#### 5.3.3 OPPORTUNITIES

5.3.3.1 Growing demand for cryostats for aerospace application

5.3.3.2 Increasing use of natural gas pipelines

### FIGURE 19 CRYOSTAT MARKET OPPORTUNITIES: IMPACT ANALYSIS

#### 5.3.4 CHALLENGES

5.3.4.1 Tissue cracking and curling during cryostat tissue sectioning

5.3.4.2 Leakage of cryogen gases

### FIGURE 20 CRYOSTAT MARKET CHALLENGES: IMPACT ANALYSIS

## 5.4 VALUE CHAIN ANALYSIS

### FIGURE 21 VALUE CHAIN ANALYSIS: CRYOSTAT MARKET

## 5.5 MARKET MAP/ECOSYSTEM

### TABLE 2 CRYOSTAT MARKET: ECOSYSTEM

### FIGURE 22 KEY PLAYERS IN CRYOSTAT MARKET

## 5.6 REGULATORY LANDSCAPE

### TABLE 3 CRYOSTAT MARKET: REGULATORY LANDSCAPE

## 6 CRYOSTAT MARKET, BY TYPE

### 6.1 INTRODUCTION

#### FIGURE 23 CRYOSTAT MARKET, BY TYPE

#### FIGURE 24 CONTINUOUS-FLOW CRYOSTATS SEGMENT TO HOLD LARGEST SHARE OF CRYOSTAT MARKET DURING FORECAST PERIOD

#### TABLE 4 CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

#### TABLE 5 CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

### 6.2 CLOSED-CYCLE CRYOSTATS

#### 6.2.1 HELIUM CRYOGEN IN CLOSED-CYCLE CRYOSTATS TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 6 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2018–2021 (USD MILLION)

TABLE 7 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2022–2027 (USD MILLION)

TABLE 8 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2018–2021 (USD MILLION)

TABLE 9 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2022–2027 (USD MILLION)

TABLE 10 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 11 CLOSED-CYCLE CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

### 6.3 CONTINUOUS-FLOW CRYOSTATS

#### 6.3.1 CONTINUOUS-FLOW CRYOSTATS TO HOLD LARGEST MARKET SHARE

TABLE 12 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2018–2021 (USD MILLION)

TABLE 13 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2022–2027 (USD MILLION)

TABLE 14 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2018–2021 (USD MILLION)

TABLE 15 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2022–2027 (USD MILLION)

TABLE 16 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 17 CONTINUOUS-FLOW CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

### 6.4 BATH CRYOSTATS

#### 6.4.1 BATH CRYOSTATS TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 18 BATH CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2018–2021 (USD MILLION)

TABLE 19 BATH CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2022–2027 (USD MILLION)

TABLE 20 BATH CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2018–2021 (USD MILLION)

TABLE 21 BATH CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2022–2027 (USD MILLION)

TABLE 22 BATH CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 23 BATH CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

6.5 MULTISTAGE CRYOSTATS

6.5.1 MULTISTAGE CRYOSTATS TO GROW SIGNIFICANTLY IN ENERGY & POWER APPLICATION

TABLE 24 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2018–2021 (USD MILLION)

TABLE 25 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2022–2027 (USD MILLION)

TABLE 26 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2018–2021 (USD MILLION)

TABLE 27 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY CRYOGEN, 2022–2027 (USD MILLION)

TABLE 28 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 29 MULTISTAGE CRYOSTATS: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

## **7 CRYOSTAT MARKET, BY SYSTEM COMPONENT**

7.1 INTRODUCTION

FIGURE 25 CRYOSTAT MARKET, BY SYSTEM COMPONENT

FIGURE 26 MICROTOME BLADE SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 30 CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2018–2021 (USD MILLION)

TABLE 31 CRYOSTAT MARKET, BY SYSTEM COMPONENT, 2022–2027 (USD MILLION)

7.2 DEWARS

7.2.1 DEWARS TO HOLD MAXIMUM MARKET SHARE

TABLE 32 DEWARS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 33 DEWARS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

7.3 TRANSFER TUBES

7.3.1 TRANSFER TUBES TO PLAY SIGNIFICANT ROLE IN CIRCULATING LIQUID CRYOGEN

TABLE 34 TRANSFER TUBES: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 35 TRANSFER TUBES: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)



## 7.4 GAS FLOW PUMPS

### 7.4.1 CONTINUOUS-FLOW CRYOSTATS TO HOLD MAXIMUM SHARE OF GAS FLOW PUMPS INDUSTRY

TABLE 36 GAS FLOW PUMPS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 37 GAS FLOW PUMPS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 7.5 TEMPERATURE CONTROLLERS

### 7.5.1 TEMPERATURE CONTROLLER SYSTEM COMPONENT IS AT NASCENT STAGE

TABLE 38 TEMPERATURE CONTROLLERS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 39 TEMPERATURE CONTROLLERS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 7.6 HIGH VACUUM PUMPS

### 7.6.1 HIGH VACUUM PUMPS TO BE USED TO DECREASE PRESSURE IN VACUUM SPACE

TABLE 40 HIGH VACUUM PUMPS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 41 HIGH VACUUM PUMPS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 7.7 MICROTOME BLADES

### 7.7.1 MICROTOME BLADES SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 42 MICROTOME BLADES: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 43 MICROTOME BLADES: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 7.8 OTHER SYSTEM COMPONENTS

TABLE 44 OTHER SYSTEM COMPONENTS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 45 OTHER SYSTEM COMPONENTS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 8 CRYOSTAT MARKET, BY CRYOGEN

### 8.1 INTRODUCTION

FIGURE 27 CRYOSTAT MARKET, BY CRYOGEN

FIGURE 28 HELIUM SEGMENT TO HAVE LARGEST MARKET SIZE DURING

## FORECAST PERIOD

TABLE 46 CRYOSTAT MARKET, BY CRYOGEN, 2018–2021 (USD MILLION)

TABLE 47 CRYOSTAT MARKET, BY CRYOGEN, 2022–2027 (USD MILLION)

### 8.2 HELIUM

8.2.1 HELIUM TO HOLD LARGEST MARKET SHARE IN 2021

TABLE 48 HELIUM CRYOGEN: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 49 HELIUM CRYOGEN: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

### 8.3 NITROGEN

8.3.1 NITROGEN CRYOGEN MARKET TO GROW AT HIGHEST RATE DURING FORECAST PERIOD

TABLE 50 NITROGEN CRYOGEN: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 51 NITROGEN CRYOGEN: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

### 8.4 OTHER CRYOGENS

TABLE 52 OTHER CRYOGENS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 53 OTHER CRYOGENS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

## 9 CRYOSTAT MARKET, BY APPLICATION

### 9.1 INTRODUCTION

FIGURE 29 CRYOSTAT MARKET, BY APPLICATION

FIGURE 30 HEALTHCARE APPLICATION TO HAVE LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 54 CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 55 CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 56 CRYOSTAT MARKET, 2018–2021 (THOUSAND UNITS)

TABLE 57 CRYOSTAT MARKET, 2022–2027 (THOUSAND UNITS)

### 9.2 HEALTHCARE

9.2.1 HEALTHCARE APPLICATION TO HOLD LARGEST MARKET SHARE IN 2021

9.2.2 MRI

9.2.3 FROZEN TISSUE SECTIONING

9.2.4 EXPLORATORY SURGERIES

9.2.5 OTHERS

TABLE 58 HEALTHCARE: CRYOSTAT MARKET, BY SUB-APPLICATION, 2018–2021

(USD MILLION)

TABLE 59 HEALTHCARE: CRYOSTAT MARKET, BY SUB-APPLICATION, 2022–2027

(USD MILLION)

TABLE 60 HEALTHCARE: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 61 HEALTHCARE: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 62 HEALTHCARE: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 63 HEALTHCARE: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.3 ENERGY & POWER

9.3.1 ENERGY & POWER APPLICATION TO GROW SIGNIFICANTLY DURING FORECAST PERIOD

TABLE 64 ENERGY & POWER: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 65 ENERGY & POWER: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 66 ENERGY & POWER: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 67 ENERGY & POWER: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.4 AEROSPACE

9.4.1 AEROSPACE APPLICATION TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 68 AEROSPACE: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 69 AEROSPACE: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 70 AEROSPACE: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 71 AEROSPACE: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.5 METALLURGY

9.5.1 HELIUM CRYOGEN MOSTLY USED IN METALLURGY APPLICATION

TABLE 72 METALLURGY: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 73 METALLURGY: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 74 METALLURGY: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 75 METALLURGY: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

## 9.6 BIOTECHNOLOGY

9.6.1 AGRICULTURAL RESEARCH TO HOLD LARGEST MARKET SHARE IN BIOTECHNOLOGY APPLICATION

9.6.2 VETERINARY STUDIES

9.6.3 AGRICULTURAL RESEARCH

9.6.4 BIOCHEMISTRY

TABLE 76 BIOTECHNOLOGY: CRYOSTAT MARKET, BY SUB-APPLICATION, 2018–2021 (USD MILLION)

TABLE 77 BIOTECHNOLOGY: CRYOSTAT MARKET, BY SUB-APPLICATION, 2022–2027 (USD MILLION)

TABLE 78 BIOTECHNOLOGY: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 79 BIOTECHNOLOGY: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 80 BIOTECHNOLOGY: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 81 BIOTECHNOLOGY: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

## 9.7 FORENSIC SCIENCE

9.7.1 NORTH AMERICA TO HOLD LARGEST MARKET SHARE IN FORENSIC SCIENCE APPLICATION

TABLE 82 FORENSIC SCIENCE: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 83 FORENSIC SCIENCE: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 84 FORENSIC SCIENCE: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 85 FORENSIC SCIENCE: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

## 9.8 MARINE BIOLOGY

9.8.1 CRYOSTAT MARKET IN MARINE BIOLOGY APPLICATION AT NASCENT STAGE

TABLE 86 MARINE BIOLOGY: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 87 MARINE BIOLOGY: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD

MILLION)

TABLE 88 MARINE BIOLOGY: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 89 MARINE BIOLOGY: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 9.9 OTHER APPLICATIONS

TABLE 90 OTHER APPLICATIONS: CRYOSTAT MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 91 OTHER APPLICATIONS: CRYOSTAT MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 92 OTHER APPLICATIONS: CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 93 OTHER APPLICATIONS: CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

## 10 CRYOSTAT MARKET, BY REGION

### 10.1 INTRODUCTION

FIGURE 31 CRYOSTAT MARKET, BY GEOGRAPHY

FIGURE 32 CRYOSTAT MARKET IN ASIA PACIFIC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 94 CRYOSTAT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 95 CRYOSTAT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 10.2 NORTH AMERICA

FIGURE 33 SNAPSHOT: CRYOSTAT MARKET IN NORTH AMERICA, 2021

TABLE 96 NORTH AMERICA: CRYOSTAT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 97 NORTH AMERICA: CRYOSTAT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 98 NORTH AMERICA: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 99 NORTH AMERICA: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

#### 10.2.1 US

10.2.1.1 Increased demand for cryostats and presence of research companies to drive market in US

#### 10.2.2 CANADA

10.2.2.1 Canada held second-largest share of cryostat market in North America in 2021

### 10.2.3 MEXICO

10.2.3.1 Development in infrastructure and favorable labor rates to drive cryostat market

### 10.3 EUROPE

FIGURE 34 SNAPSHOT: CRYOSTAT MARKET IN EUROPE, 2021

TABLE 100 EUROPE: CRYOSTAT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 101 EUROPE: CRYOSTAT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 102 EUROPE: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 103 EUROPE: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

#### 10.3.1 UK

10.3.1.1 Cryostat market to witness significant growth due to major developments

#### 10.3.2 GERMANY

10.3.2.1 Germany to be largest cryostat market for adopting cryogenics

#### 10.3.3 FRANCE

10.3.3.1 Cryostat market in France to exhibit fastest growth rate due to prosperity in medical industry

#### 10.3.4 REST OF EUROPE

### 10.4 ASIA PACIFIC

FIGURE 35 SNAPSHOT: CRYOSTAT MARKET IN ASIA PACIFIC, 2021

TABLE 104 ASIA PACIFIC: CRYOSTAT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 105 ASIA PACIFIC: CRYOSTAT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 106 ASIA PACIFIC: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 107 ASIA PACIFIC: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

#### 10.4.1 CHINA

10.4.1.1 Increasing investments in industries to drive cryostat market in China

#### 10.4.2 JAPAN

10.4.2.1 Being a developed economy, Japan to become a potential market for cryostats

#### 10.4.3 INDIA

10.4.3.1 Demand for cooling infrared sensors from various industries to fuel cryostat market in India

#### 10.4.4 SOUTH KOREA

10.4.4.1 Due to demand from various industries, cryostat market to witness remarkable development in South Korea

#### 10.4.5 REST OF ASIA PACIFIC

#### 10.5 ROW

FIGURE 36 SOUTH AMERICA TO HOLD LARGEST MARKET SHARE IN ROW DURING FORECAST PERIOD

TABLE 108 ROW: CRYOSTAT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 109 ROW: CRYOSTAT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 110 ROW: CRYOSTAT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 111 ROW: CRYOSTAT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

### 11 COMPETITIVE LANDSCAPE

#### 11.1 OVERVIEW

TABLE 112 KEY DEVELOPMENTS UNDERTAKEN BY LEADING PLAYERS IN CRYOSTAT MARKET

#### 11.2 MARKET SHARE AND RANKING ANALYSIS

TABLE 113 DEGREE OF COMPETITION

FIGURE 37 RANKING ANALYSIS OF TOP FIVE PLAYERS IN CRYOSTAT MARKET

#### 11.3 COMPETITIVE BENCHMARKING

TABLE 114 COMPANY FOOTPRINT (14 COMPANIES)

TABLE 115 APPLICATION FOOTPRINT (14 COMPANIES)

TABLE 116 REGIONAL FOOTPRINT (14 COMPANIES)

#### 11.4 COMPETITIVE SCENARIO AND TRENDS

##### 11.4.1 DEALS

TABLE 117 DEALS, AUGUST 2020

### 12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) \*

#### 12.1 KEY PLAYERS

##### 12.1.1 LEICA BIOSYSTEMS

TABLE 118 LEICA BIOSYSTEMS: BUSINESS OVERVIEW

##### 12.1.2 CRYOMECH INC

TABLE 119 CRYOMECH INC: BUSINESS OVERVIEW

**TABLE 120 CRYOMECH INC: DEALS**

12.1.3 AMOS SCIENTIFIC

**TABLE 121 AMOS SCIENTIFIC: BUSINESS OVERVIEW**

12.1.4 MEDITE

**TABLE 122 MEDITE: BUSINESS OVERVIEW**

12.1.5 RIGHT INSTRUMENTS

**TABLE 123 BRIGHT INSTRUMENT: BUSINESS OVERVIEW**

12.1.6 DAKWE MEDICAL

**TABLE 124 DAKWE MEDICAL: BUSINESS OVERVIEW**

12.1.7 JINHUA YIDI MEDICAL APPLIANCE CO., LTD.

**TABLE 125 JINHUA YIDI MEDICAL APPLIANCE CO., LTD.: BUSINESS OVERVIEW**

12.1.8 SLEE MEDICAL GMBH

**TABLE 126 SLEE MEDICAL GMBH: BUSINESS OVERVIEW**

12.1.9 ADVANCED RESEARCH SYSTEMS

**TABLE 127 ADVANCED RESEARCH SYSTEMS: BUSINESS OVERVIEW**

12.1.10 LAKE SHORE CRYOTRONICS

**TABLE 128 LAKE SHORE CRYOTRONICS: BUSINESS OVERVIEW****TABLE 129 LAKE SHORE CRYOTRONICS: DEALS****12.2 OTHER KEY PLAYERS**

12.2.1 EPREDIA

12.2.2 SM SCIENTIFIC INSTRUMENTS

12.2.3 MEDIMEAS INSTRUMENTS

12.2.4 HACKER INSTRUMENTS &amp; INDUSTRIES

12.2.5 BOECKELER INSTRUMENTS INC.

12.2.6 HISTO-LINE LABORATORIES

12.2.7 LUPETEC

12.2.8 SCILAB CO. LTD.

12.2.9 CRYOFAB, INC.

12.2.10 PRECISION CRYOGENICS

12.2.11 ATTOCUBE SYSTEMS AG

12.2.12 AMETEK SCIENTIFIC INSTRUMENTS

12.2.13 MIRION TECHNOLOGIES

12.2.14 BIOBASE

12.2.15 SIPCON INSTRUMENT INDUSTRIES

\*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

**13 APPENDIX**



13.1 INSIGHTS OF INDUSTRY EXPERTS

13.2 QUESTIONNAIRE FOR CRYOSTAT MARKET

13.3 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.4 CUSTOMIZATION OPTIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

## I would like to order

Product name: Cryostat Market by Type (Closed-Cycle, Continuous-Flow, Bath, Multistage), System Component (Dewars, Transfer Tubes, Gas Flow Pumps, Temperature Controllers, High Vacuum Pumps, Microtome Blades), Cryogen, Application & Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/C8A5BE05F92EN.html>

Price: US\$ 4,950.00 (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/C8A5BE05F92EN.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