

# Global Program-Controlled Cooling Device Market Growth 2024-2030

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## Abstracts

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Most biological samples can be preserved long-term in liquid nitrogen. However, during the preparation phase before transferring the samples to liquid nitrogen, viable biological samples undergo a complex freezing phase transition process. Controlling the appropriate temperature gradient and freezing rate is crucial for maintaining cell viability. For various sensitive cells, such as protozoa, mammalian cells, and plant cells, it is necessary to precisely control the freezing rate at different cooling intervals. This is because factors such as intracellular heat release at the supercooling point, the formation of large ice crystals due to a too-fast freezing rate, and excessive dehydration of cells during a prolonged cooling process, are all detrimental to cell survival. A programmable freezer is a high-performance, safe, and reliable freezing system with adjustable temperature change rates. It features an upgraded touch screen interface, making it more user-friendly and simplifying the editing and use of freezing programs. It better meets the application needs in cutting-edge fields such as basic biological research, cell therapy, biopharmaceutical production, and biobanking.

The global Program-Controlled Cooling Device market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Program-Controlled Cooling Device Industry Forecast" looks at past sales and reviews total world Program-Controlled Cooling Device sales in 2023, providing a comprehensive analysis by region and market sector of projected Program-Controlled Cooling Device sales for 2024 through 2030. With Program-Controlled Cooling Device sales broken down by region,

market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Program-Controlled Cooling Device industry.

This Insight Report provides a comprehensive analysis of the global Program-Controlled Cooling Device 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 Program-Controlled Cooling Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Program-Controlled Cooling Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Program-Controlled Cooling Device 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 Program-Controlled Cooling Device.

United States market for Program-Controlled Cooling Device is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Program-Controlled Cooling Device is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Program-Controlled Cooling Device is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Program-Controlled Cooling Device players cover Strex, BioLife Solutions, Cytiva, Dohmeyer, Planer, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Program-Controlled Cooling Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small Capacity (30 L)

Segmentation by Application:

Research

Cell and Gene Therapy

Biobank

Others

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.

Strex

BioLife Solutions

Cytiva

Dohmeyer

Planer

Thermo Fisher Scientific

SP Industries

PHC Group

ESCO Lifesciences

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Program-Controlled Cooling Device market?

What factors are driving Program-Controlled Cooling Device market growth, globally and by region?

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

How do Program-Controlled Cooling Device market opportunities vary by end market size?

How does Program-Controlled Cooling Device break out by Type, by Application?

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