

Global Freeze Drying Equipment Market Report and Forecast 2023-2028

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Report description:

Global Freeze Drying Equipment Market Report and Forecast 2023-2028 Market Outlook

According to the report by Expert Market Research (EMR), the global freeze drying equipment market reached a value of USD 2.25 billion in 2022. Aided by rising demand from pharmaceutical industry and growing demand for nutritious food options with extended shelf life, the market is projected to further grow at a CAGR of 9.40% between 2023 and 2028 to reach a value of USD 3.82 billion by 2028.

Freeze drying, also known as lyophilisation, is a dehydration process typically used to preserve perishable materials and make them more convenient for transport. Freeze drying equipment efficiently removes moisture from products, making them resistant to microbial growth and thereby enhancing shelf life. This equipment is quintessential in numerous applications, ranging from the preservation of food and beverages to the stability and longevity of pharmaceuticals and biotech products.

Increasing utilisation of freeze drying equipment in the pharmaceutical industry has contributed largely to the freeze drying equipment market growth. With a burgeoning need for preserving biological samples, vaccines, and other heat-sensitive materials, freeze drying offers a pivotal solution. It ensures the stability of these products, preventing any degradation and maintaining their efficacy and potency during storage and transportation.

Parallelly, the food and beverage industry are experiencing a surge in the demand for freeze-dried products paving a way for freeze drying equipment market expansion. With consumers becoming increasingly health-conscious and seeking nutritious options that have an extended shelf life, freeze-dried fruits, vegetables, and ready-to-eat meals have gained immense popularity. The technique retains the original flavour, colour, and nutritional content, offering consumers high-quality products that are both convenient and healthful.

Technological innovations have further enhanced the efficiency and capacity of freeze drying equipment thereby creating a huge freeze drying equipment market demand. Modern machines come equipped with advanced features like smart sensors, automated shelf loading, and improved vacuum systems. These features not only optimise the freeze drying process but also ensure consistent product quality, driving many industries to invest in the latest equipment.

Furthermore, the burgeoning biotech sector, with its focus on research and development, relies heavily on freeze drying for the preservation of biological samples, peptides, proteins, and other cellular structures. Ensuring these components remain

unaffected over time is paramount, and freeze drying equipment provides the precise conditions required for this delicate preservation.

The global freeze drying equipment market is on an upward trajectory, underpinned by its extensive applications across diverse industries. The surge in demand for specialty products in the nutraceutical and cosmetic industries, where certain ingredients need preservation without the addition of preservatives, has brought freeze drying to the fore. The ability to maintain the integrity of natural ingredients, essential oils, and other compounds makes freeze drying equipment indispensable in these sectors.

Market Segmentation

The market can be divided based on product, scale of operation, application, and region.

Market Breakup by Product

- -[Dryer
- o∏Tray Style Freeze Dryers
- o∏Manifold Freeze Dryers
- o∏Rotary Freeze Dryers
- -∏Accessories
- o

 ☐Drying Chamber
- o Vacuum System
- o∏CIP (Clean-in-Place) System
- o_{Others}

Market Breakup by Scale of Operation

- Industrial Scale Freeze Dryer
- Laboratory Scale Freeze Dryer
- -□Pilot Scale Freeze Dryer

Market Breakup by Application

- -□Biotechnology
- -□Food Processing
- Pharmaceuticals
- -□Surgical Procedures
- -∏Others

Market Breakup by Region

- ¬North America
- -[Europe
- -∏Asia Pacific
- -□Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the global freeze drying equipment companies. Some of the major key players explored in the report by Expert Market Research are as follows:

- Thermo Fisher Scientific Inc.
- - \square GEA Group Aktiengesellschaft
- Azbil Corporation
- -[]Labconco Corporation
- Cuddon Freeze Dry
- HOF Sonderanlagenbau GmbH
- $\hbox{-} \underline{\square} Martin \ Christ \ Gefriertrocknungsanlagen \ GmbH$
- Millrock Technology, Inc.,

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- -[]Harvest Right, LLC.
- OPTIMA packaging group GmbH
- Others

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*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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