

Freeze Drying Equipment Market Size, Share & Trends Analysis Report By Product (Bench Top Freeze Dryers, Laboratory Freeze Dryers), By Application, By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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Freeze Drying Equipment Market Growth & Trends

The global freeze drying equipment market size is anticipated to reach USD 3.50 billion by 2030, expanding at a CAGR of 9.1% from 2023 to 2030, according to a new report by Grand View Research, Inc. Rising demand for food preservation and increasing investments in infrastructure development are expected to drive the market growth over the forecast period.

Consumers are concerned about the quality of food & beverages, which has led to an increase in the use of cold storage solutions in a variety of industries. The increasing demand for food preservation equipment will fuel the market for freeze drying equipment. Foods & beverages can be dried at low temperatures without affecting their physical structure, using freeze drying.

Using lyophilization technology, a variety of food items are preserved, including fruits, vegetables, meat, fish, herbs and other flavorings, ice cream, and coffee. Foods that have been freeze-dried can be rapidly and readily reconstituted by adding water without needing to be chilled or chemically preserved. These aforementioned factors will drive product demand for the food processing industry.

Freeze dryers are utilized in the pharmaceutical industry to cool a range of goods.

Furthermore, the physical structure of the medications is conserved because sensitive pharmaceuticals and fragile biological products are dried at moderate temperatures throughout this process. These processed materials are also utilized to make emergency antibodies & immunizations, which will further drive the product demand.

The military & defense sectors are projected to make substantial use of the freeze-drying technology. In the past, military medical staff used normal blood products to treat injured people during emergencies. This process required the use of refrigerators & other specialized equipment, which is time-consuming. However, plasma is frozen and can be utilized to treat injured people before they are evacuated, which is anticipated to drive market growth.

Companies such as GEA Group, Azbil Corporation, and Labconco Corporation are undertaking strategic acquisitions and product launches to strengthen their product portfolio. For instance, at IFFA in March 2022, GEA introduced their new freezing system ProEdge Drive. It has a 12% larger freezing capacity while utilizing less stainless steel in the same footprint.

Freeze Drying Equipment Market Report Highlights

The industrial freeze dryers segment led the market and accounted for 35.7% of the global market share in 2022. Food processing & dairy industries can preserve items that are extremely sensitive and cannot be dried via evaporation by using industrial freeze dryers

The food processing application segment led the market and accounted for 34.0% of the global revenue share in 2022. Through sublimation, the technique minimizes pressure and keeps items moist, making it ideal for food preparation

The pharmaceuticals application segment is expected to expand at a CAGR of 11.0% over the forecast period, owing to extensive usage of freeze drying equipment to preserve biologicals such as enzymes, proteins, viruses & bacteria, and penicillin

Asia Pacific is estimated to witness a CAGR of 11.2% over the forecast period owing to the presence of major pharmaceutical companies that use freeze-drying technology to keep biological products such as biological fluids, medicines, enzymes, and hormones safe

The market is competitive in nature due to the presence of multinationals operating in the industry. It is characterized by the presence of a significant consumer base, with the companies operating their business through dedicated distribution networks

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