

Solar Freezer Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global solar freezer market size reached US\$ 9.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 13.4 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028.

A solar freezer is a refrigeration unit integrated with photovoltaic or solar panels for energy. It is used for storing and freezing meat and dairy products and preserving them in hot climates. Solar freezers are commonly available in solar battery-based and solar-direct variants. They consist of solar arrays, panel support structures, batteries and highly insulated freezing containers. The freezers are also used for storing temperature-sensitive vaccines, drugs and other pharmaceutical products to prevent spoilage and contamination. In comparison to the traditionally used refrigeration systems, solar freezers are environment-friendly, have longer operational life and can run on direct current (DC) power. As a result, they find extensive applications across various industries, including healthcare, pharmaceutical and food and beverage.

Solar Freezer Market Trends:

The increasing demand for effective refrigeration systems that run on renewable energy resources is one of the key factors driving the growth of the market. With the rising environmental consciousness, consumers are widely adopting solar freezers to minimize the dependence on chlorofluorocarbon (CFC) and other ozone-depleting agent-based refrigeration systems. Moreover, solar freezers also have minimal energy requirements as compared to the traditionally used refrigerators and freezers, thereby providing a thrust to the market growth. In addition to this, significant growth in the pharmaceutical industry is also creating a positive outlook for the market. As the coronavirus disease (COVID-19) continues to spread across the globe, there has been a substantial increase in the demand for solar freezers across healthcare centers for

storing vaccines, blood bags and other medications. In line with this, the widespread adoption of portable solar freezers in recreational vehicles (RVs) is also contributing to the market growth. Other factors, including the increasing expenditure capacities of the consumers, along with the widespread product adoption by military forces in off-grid locations, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global solar freezer market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, capacity and end use.

Breakup by Type:

- Solar-Battery Based
- Solar-Direct Drive

Breakup by Capacity:

- Less Than 250 Ltrs
- 250-500 Ltrs
- More Than 500 Ltrs

Breakup by End Use:

- Medical
 - Hospitals
 - Pharmacies and Vaccines
 - Blood Banks
 - Others
- Household
- Infrastructure
- Commercial
- Others

Breakup by Region:

- North America
 - United States

Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being B Medical Systems, Connexa, Dulas Ltd, KATEK Memmingen GmbH, Kyocera Corporation, Rockwell Industries Limited, Sholep Energy Ltd, Sundanzer, The Sure Chill Company Limited, Unique Appliances Ltd and Vestfrost Solutions.

Key Questions Answered in This Report

1. What was the size of the global solar freezer market in 2022?
2. What is the expected growth rate of the global solar freezer market during 2023-2028?
3. What are the key factors driving the global solar freezer market?
4. What has been the impact of COVID-19 on the global solar freezer market?
5. What is the breakup of the global solar freezer market based on the type?
6. What is the breakup of the global solar freezer market based on the capacity?
7. What are the key regions in the global solar freezer market?

8. Who are the key players/companies in the global solar freezer market?

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