



Global Cold & Freezer Rooms Market Report 2023

Key Players, Types, Applications, Countries, Market Size, Forecast till 2030

Published By: Cognitive Market Research



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Report Details

The base year for the calculation is 2022 and 2018 to 2022 will be historical period. At the same time, data for the year 2023 will be an estimated one while the forecasted data will be from year 2023 to 2030.



1 Research Methodology

- Primary Research Methodology
- Secondary Research Methodology
- Market Size Estimation Methodology
- Data Triangulation

2 Competitors Analysis

- Business Segment/ Overview:
- Investment in Research and Development
- Recent Developments:
- Business Strategy
- SWOT Analysis

3 Market Dynamics

- Key Drivers, Restraints and Opportunities
- Market Attractiveness Analysis for Each Segment and Region
- PESTEL Analysis
- Porter 5 Force's Analysis
- Value Chain Analysis

4 Regional and Country Analysis

- North America (United States, Canada, Mexico)
- Europe (UK, France, Germany, Italy, Russia, Spain)
- Asia Pacific (China, Japan, Korea, India, South East Asia)
- South America (Brazil, Argentina , Colombia)
- Middle East & Africa (GCC Countries, Egypt, South Africa, Nigeria, Turkey)

Report Scope

Application

- Food
- Medical
- Other

Application

- Cold Rooms
- Freezer room/walk-in freezer

Regions

- North America
- Europe
- Asia Pacific
- South America
- Middle East & Africa

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Chapter 4 Cold & Freezer Rooms Market Overview

4.1 Product Overview and Scope of Cold & Freezer Rooms Market

Cold and freezer rooms, also known as walk-in refrigerators or walk-in freezers, are large enclosed spaces designed to store perishable goods at low temperatures. They are commonly used in commercial settings such as restaurants, supermarkets, hotels, hospitals, and food processing facilities.

Cold rooms are designed to maintain temperatures above freezing, typically between 0°C (32°F) and 15°C (59°F), while freezer rooms maintain temperatures below freezing, usually around -18°C (0°F) or lower. They provide ample storage space for perishable food items, allowing businesses to stock and preserve larger quantities of products. Cold and freezer rooms are constructed with insulated panels that have a high thermal resistance. These panels are typically made of materials such as polyurethane foam or polystyrene, which provide effective insulation to minimize temperature transfer. The panels are assembled to form the walls, ceiling, and floor of the room, creating an airtight enclosure. The cooling system in cold and freezer rooms consists of a refrigeration unit that circulates cold air to maintain the desired temperature. This unit typically includes a compressor, condenser, evaporator, and expansion valve. The system removes heat from the room, ensuring a consistent and controlled temperature environment.

Cold and freezer rooms often feature shelving or racking systems to organize and maximize storage space. These can be made of materials such as stainless steel or wire mesh, which are resistant to low temperatures and easy to clean. Special attention is given to the doors of cold and freezer rooms to prevent temperature loss. These doors are typically well-insulated and have airtight seals to minimize heat transfer. They are often equipped with features such as heated gaskets and self-closing mechanisms to maintain the integrity of the cold or frozen environment. Cold and freezer rooms may incorporate safety features such as emergency release mechanisms, interior lighting, and temperature monitoring systems. These measures help ensure the safety of personnel working inside and protect the stored goods from spoilage in case of power outages or other emergencies.

Regular maintenance is essential to keep cold and freezer rooms functioning efficiently. This includes cleaning the interior, checking the integrity of the insulation, inspecting the refrigeration system, and replacing any worn-out components. Proper maintenance helps extend the lifespan of the equipment and ensures optimal performance.

Chapter 8 Cold & Freezer Rooms Market – Industry Analysis

8.1 Market Drivers

8.1.1 **The expansion of the food and beverage industry has a direct impact on the growth and demand for cold and freezer rooms**

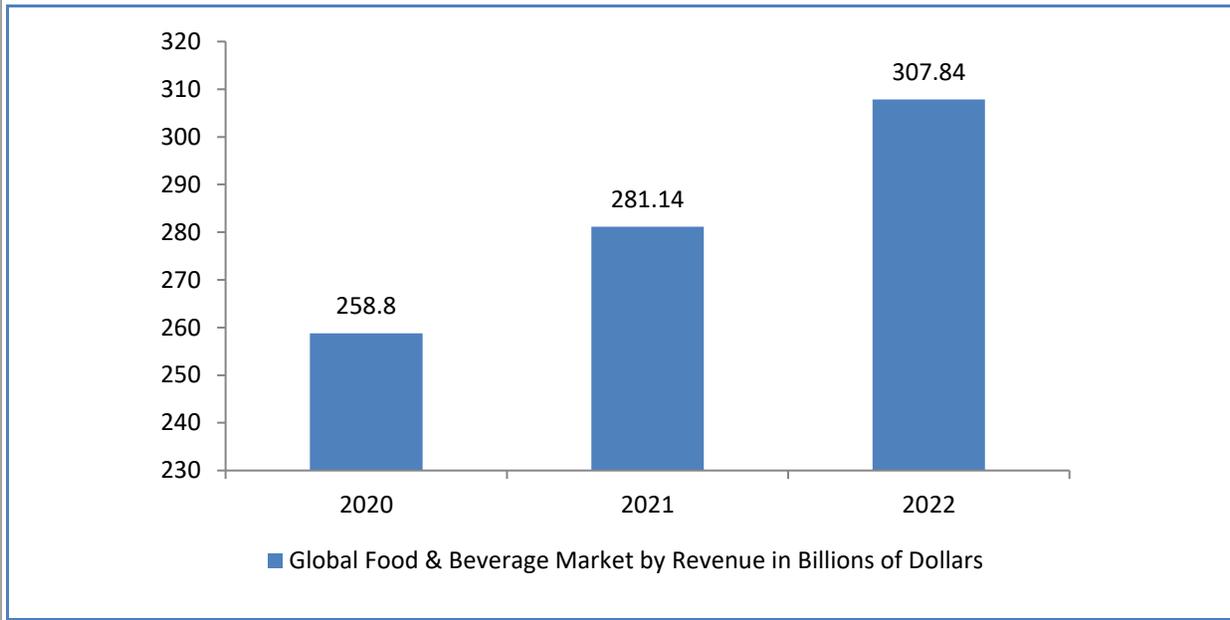
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Cold rooms are designed to maintain temperatures above freezing, typically between 0°C (32°F) and 15°C (59°F), while freezer rooms maintain temperatures below freezing, usually around -18°C (0°F) or lower. They provide ample storage space for perishable food items, allowing businesses to stock and preserve larger quantities of products. Cold and freezer rooms are constructed with insulated panels that have a high thermal resistance. These panels are typically made of materials such as polyurethane foam or polystyrene, which provide effective insulation to minimize temperature transfer. The panels are assembled to form the walls, ceiling, and floor of the room, creating an airtight enclosure. The cooling system in cold and freezer rooms consists of a refrigeration unit that circulates cold air to maintain the desired temperature. This unit typically includes a compressor, condenser, evaporator, and expansion valve. The system removes heat from the room, ensuring a consistent and controlled temperature environment.

Cold and freezer rooms often feature shelving or racking systems to organize and maximize storage space. These can be made of materials such as stainless steel or wire mesh, which are resistant to low temperatures and easy to clean. Special attention is given to the doors of cold and freezer rooms to prevent temperature loss. These doors are typically well-insulated and have airtight seals to minimize heat transfer. They are often equipped with features such as heated gaskets and self-closing mechanisms to maintain the integrity of the cold or frozen environment. Cold and freezer rooms may incorporate safety features such as emergency release mechanisms, interior lighting, and temperature monitoring systems. These measures help ensure the safety of personnel working inside and protect the stored goods from spoilage in case of power outages or other emergencies.

Regular maintenance is essential to keep cold and freezer rooms functioning efficiently. This includes cleaning the interior, checking the integrity of the insulation, inspecting the refrigeration system, and replacing any worn-out components. Proper maintenance helps extend the lifespan of the equipment and ensures optimal performance.

FIG. 1 Global Food & Beverage Market by Revenue in Billions of Dollars



Chapter 11 Global Cold & Freezer Rooms Market Analysis by Application

11.1 Global Cold & Freezer Rooms Revenue and Market Share (%) by Application (2018-2030)

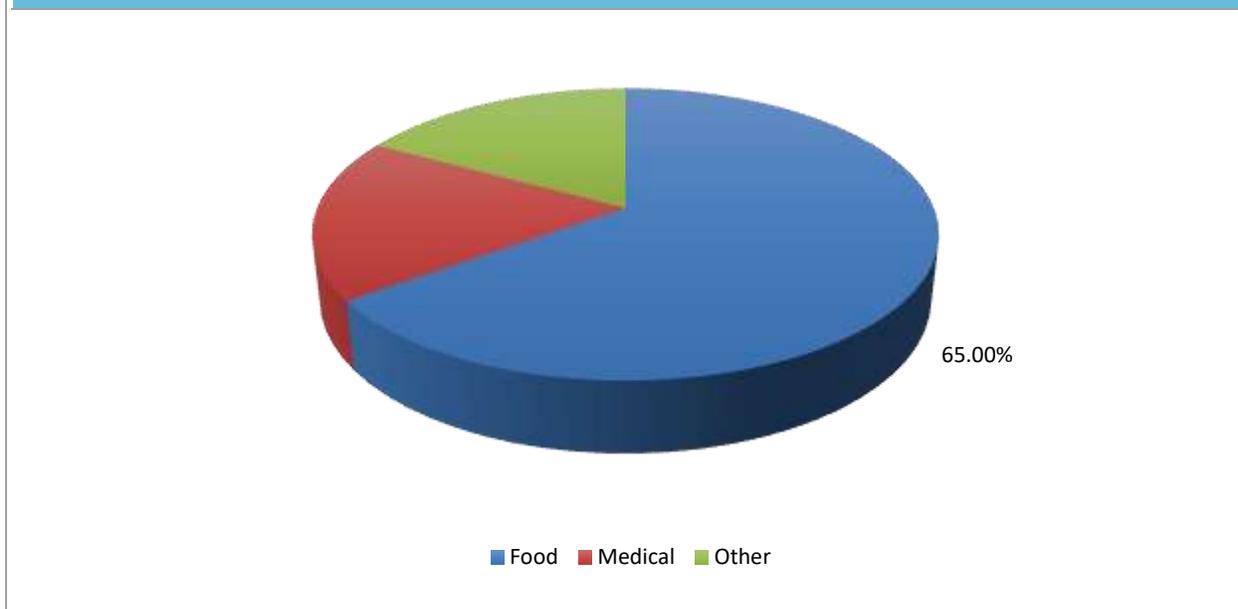
TABLE 8 Global Cold & Freezer Rooms Revenue (USD Million) by Application (2018-2030)

	2018A												2030F
Food	XX												XX
Medical	XX												XX
Other	XX												XX
Total	XX												XX

TABLE 9 Global Cold & Freezer Rooms Revenue Share (%) by Application (2018-2030)

	2018												2030
Food	XX												XX
Medical	XX												XX
Other	XX												XX
Total	XX												XX

FIG. 1 Global Cold & Freezer Rooms Revenue Market Share (%) by segment in 2022



Source: Cognitive Market Research

Based on the application, the food segment is dominating the cold & freezer rooms market during the forecast period. This is attributed to the expansion of the food and beverage industry in both developed as well as developing economies. The growth of the food industry and the cold and freezer market are mutually influential. The different processing stages of the food chain require appropriate storage conditions to maintain the quality, freshness, and safety of food items. With growing industrialization and urbanization, the consumption of fresh food is decreased and demand of ready to eat or frozen food has increased significantly. Cold and freezer storage facilities are essential for storing a wide range of perishable goods such as fruits, vegetables, dairy products, meat, seafood, and frozen foods. Therefore, expansion of the food industry directly drives the need for cold and freezer storage solutions.

Chapter 13 Global Cold & Freezer Rooms Manufacturers Profiles/Analysis

This segment of the report provides in-depth and pertinent information on every foremost player in the market through both primary and secondary research. The company profiling chapter includes ten or more key players, which are dominating the market. Each company profile includes demystifying professional information in a tabular format, which comprises the company's official website, established year, market position, geographical presence, competitors, and contact information.

Further, company profiling includes an in-detailed business overview, COVID-19 impact on the particular firm, product type specifications, revenue & market share, and recent developments done by the company for its inorganic development, such as mergers, strategic acquisitions, partnerships, and others. Besides, profiling includes the company's investment in research and development activities.

The recent innovative product launches, business expansion, investments done by the company in different markets, and other news are also available in the company profiling section. At last, it provides the company's business strategy and SWOT analysis.

Questions

- Which are the paramount players in the market?
- What key Developments Company has done in recent years?
- What are the major acquisitions done by the players?
- What are the opportunities for companies to grow in the Keychain Pendant market?
- Which player held the largest market share in 2020 & 2021?

13.1 Darwin Chambers

13.1.1 Darwin Chambers Basic Information, Manufacturing Base, Sales Area and its Competitors

TABLE 12 Darwin Chambers Basic Information, Manufacturing Base, Sales Area and Its Competitors

Item	Description
Company Name	Darwin Chambers
Website	www.darwinchambers.com
Established Date	2003
Headquartered	United States
Market Position/ History	In 2003, Darwin Chambers was formed. It is an independently held small firm that serves the whole US as well as the rest of the world and has enormous development potential. The business is a member of Energy Star and the UN Global Compact. With the addition of solar panels to its primary plant, Darwin Chambers has also improved its energy efficiency.
Sales Area	Worldwide
Manufacturing Location	United States
Ownership Type	Private
No. of Employees	~69
Competitors	Cincinnati Sub-Zero Products Inc, Weiss Technik North America Inc, CM Envirosystems Pvt Ltd, etc.
Contact Information	2945 Washington Avenue, St. Louis, MO 63103 Tel: (314) 534-3111
CEO	xx
Ticker	xx

13.1.2 Business Segment/ Overview:

For twenty years, Darwin Chambers Company has been creating, installing, and manufacturing controlled environmental chambers. Its headquarters are conveniently situated to aid with possible travel expenses and to make it easier for workers to get to the job site on time. Current sites for Darwin Chambers include one in Raleigh, North Carolina, and three in the greater St. Louis, Missouri, region. All Darwin customized environment room control panels have received CSA certification, which is similar to UL certification standards. Darwin Chambers offers pre-built and bespoke environmental chambers with extremely energy-efficient components for accurate temperature, humidity, gas and lighting control in a range of applications.

13.1.3 Cold & Freezer Rooms Product Types Specification

Product	Product Description
<p>Cold Rooms</p>	<p>The business provides trustworthy, effective environmental controls for a range of uses, such as GMP Storage and Cold Storage for Seed and Agricultural Products, Nutritional Supplements, and more. In order to maintain a low dew point and prevent ice from forming on both product and equipment surfaces, these cold rooms are often equipped with desiccant or refrigeration-based dehumidification. The cold rooms typically have temperatures between zero and ten degrees Celsius.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Tight temperature control for reliability and accuracy • Tight temperature uniformity of $\pm 0.5^{\circ}\text{C}$ or better throughout the room. • Work with any space constraints, flexible custom applications. • Conditioning system can be replaced or relocated quickly due to simple water-type connections.

- Precision Fluid Temperature Control Unit cooling system utilizes a combination of refrigerant technologies and glycol/water heat exchange technologies
- Eco-friendly and typically require fewer than 1000 Watts to operate
- System can be restored by a technician with no down time on the chamber.
- Special accessories that allow uninterrupted operation and great convenience.
- ADA compliance available with no additional cost to the customer.
- Simple, easy-to-use, easy-to-service control systems.
- Oversize evaporator fan coil eliminates the need for a defrost at 4°C or more.

Features:

- 4" to 6" Polyurethane Foam Insulated Panels,R-Value 31+ or Higher
- Embossed White Aluminum Interior Surface Finish
- Embossed White Galvanized Steel Exterior Surface Finish
- Exceptional Temperature Uniformity
- Temperature Control At Sensor / Set-Point: $\pm 0.2^{\circ}$ C
- Humidity Control At Sensor: $\pm 0.5\%$.
- High / Low Alarms
- Flexible Configurations
- Complies With LEED Standards
- Energy Efficient Offering Lowered Maintenance Costs

	<ul style="list-style-type: none"> • Pre-tested, Pre-charged Refrigeration Systems • Non-proprietary Controls • Corrosive Resistant Equipment • Precision Sizing • Diurnal Cycling Temperature • CSA-certified control panel (UL equivalent)
<p>Freezer</p>	<p>Darwin Chambers Company Freezer Rooms are engineered for optimal dependability, efficiency, and stability. The common freezers can handle a -20°C set-point with a control tolerance of at least 0.5°C. Many are specifically developed for a wide range of uses, such as ASTM C666-compliant freeze-thaw test protocols, GMP stability storage from 4°C to -30°C, wide-range test material test chambers, and freezers for mortuary/cadaver storage. These freezer rooms are often equipped with desiccant or refrigeration-based dehumidification to maintain a low dew point and avoid ice formation on product and equipment surfaces.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Tight temperature control for reliability and accuracy. • Tight temperature uniformity of $\pm 0.5^\circ\text{C}$ or better throughout the room. • Work with any space constraints, flexible custom applications. • Redundancy options that allow uninterrupted operation for critical applications. • ADA compliance available with no additional cost to the customer. • Simple, easy-to-use, easy-to-service control systems.

- Smooth ceiling, aluminum or steel, for optimal performance over competitors who use egg crate ceiling. Egg crate ceilings promote mold growth, difficult to service equipment, difficult to clean, and interfere with lighting and airflow.

Features:

- 4" to 6" Polyurethane Foam Insulated Panels, R-Value 31+ or Higher
- Embossed White Aluminum Interior Surface Finish
- Embossed White Galvanized Steel Exterior Surface Finish
- Exceptional Temperature Uniformity
- Temperature Control At Sensor / Set-Point: $\pm 0.2^{\circ}$

C

- High / Low Alarms
- Flexible Configurations
- Complies With LEED Standards
- Energy Efficient Offering-Lowered Maintenance

Costs

- Pre-tested, Pre-charged Refrigeration Systems
- Non-proprietary Controls
- Corrosive Resistant Equipment
- Precision Sizing
- Diurnal Cycling Temperature

CSA certified control panel (UL equivalent)

13.1.6 **Recent Developments:**

Year	Latest News
XX	XX
XX	XX

13.1.7 **Business Strategy**

Darwin Chambers committed to grow and lead our industry segment through the efforts of a creative, skilled, and professional workforce; providing innovative, high quality, controlled environments and related services, while cultivating lasting customer relationships. It has appropriately certified and credentialed professionals, staff and factory trained technicians capable of troubleshooting potential issues, explaining technical details, and recommending custom solutions to clients. It strive to provide our clients with the best knowledge they can have when it comes to their new controlled environment chamber and the features that come along with it.

13.1.8 **Management Change**

[This section contains blurred text, likely representing redacted information.]

13.1.9 Darwin Chambers S.W.O.T Analysis

Strength

- ❖ Expert maintenance and qualification services

Weakness

- ❖ Need more investment in technology

Opportunity

- ❖ Demand for environment friendly products

Threats

- ❖ Shortage of skilled workforce

13.1.10 COVID-19 Impact Analysis

[REDACTED]

Note: Following company's data will be provided in the same format, for example 1st company profile shown above. In case you need any data Customization please feel free to contact us!

- 13.2 **Viessmann**
- 13.3 **Cincinnati Sub-Zero**
- 13.4 **Coldkit**
- 13.5 **Foster**
- 13.6 **Mercatus**
- 13.7 **SKOPE**
- 13.8 **Desmon**
- 13.9 **Porkka Finland Oy**
- 13.10 **Elanpro**
- 13.11 **Others**

Note: Company Revenue Information Will Be Provided Subject to Data Availability!

Chapter 14 Global Cold & Freezer Rooms Market : Regional Analysis

Report covers global regional analysis in this segment of final deliverable, which gives the general overview about the market situation in various countries in holistic way possible. Geographically market is been fragmented into major regions, such as North America, Europe, Asia Pacific, Latin America, Middle East and Africa. The research has been done through comprehensive market surveys, case studies, and secondary research through various trustworthy sources.

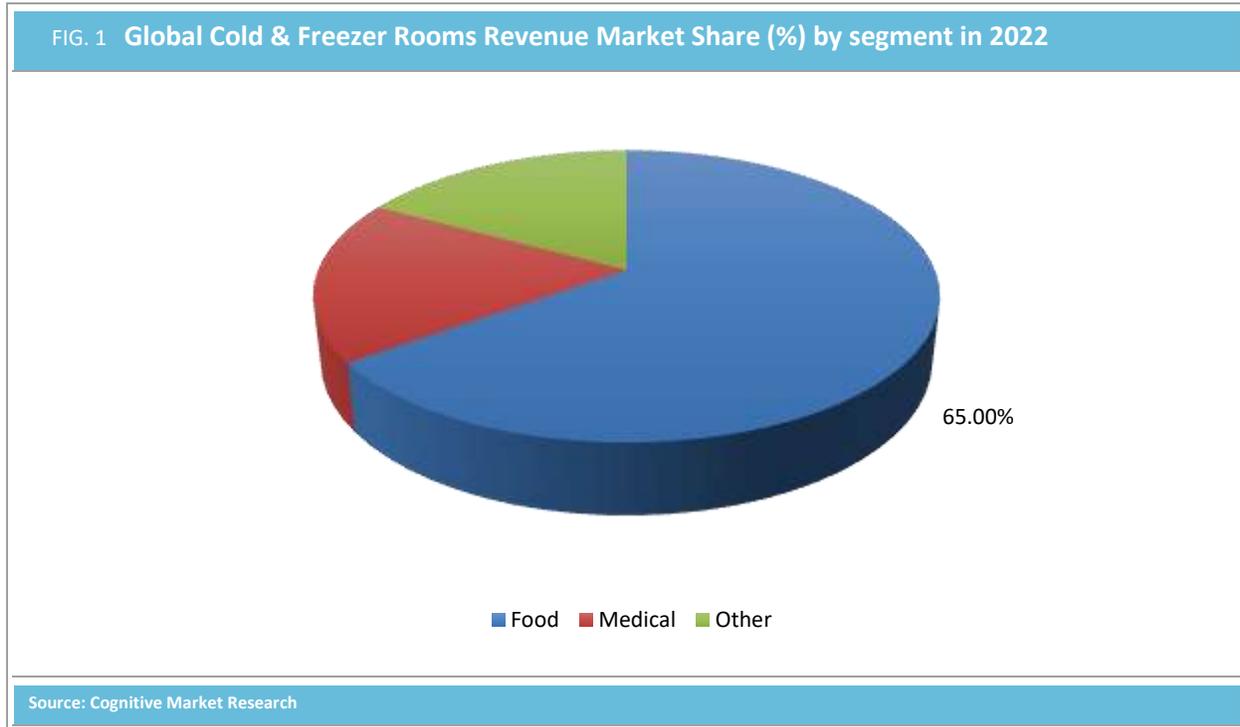
This chapter offers complete regional analysis for both mature as well as developing economies. Beside this, the segment covers detail analysis of each country of every region which gives the data insight for driving factors, demand analysis, technological advancement, and competitive analysis of every region in this segment.

- Which region holds the largest market share?
- Which region is expected to grow fast during forecast period?
- What factors are driving the growth of the market in specific region?
- Which region have large number of market players?
- What are the changing policies of regions in particular market?
- Which specific country have the highest consumption for particular product?

14.1 Global Cold & Freezer Rooms Revenue and Market Share (%) by Region (2018 - 2030)

TABLE 14 Global Cold & Freezer Rooms Revenue (USD Million) by Region (2018- 2030)

	2018														2030
North America	XX														Xx
Europe	XX														Xx
Asia-Pacific	XX														Xx
South America	XX														Xx
Middle East and Africa	XX														Xx
Total	XX														XX



Based on the application, the food segment is dominating the cold & freezer rooms market during the forecast period. This is attributed to the expansion of the food and beverage industry in both developed as well as developing economies. The growth of the food industry and the cold and freezer market are mutually influential. The different processing stages of the food chain require appropriate storage conditions to maintain the quality, freshness, and safety of food items. With growing industrialization and urbanization, the consumption of fresh food is decreased and demand of ready to eat or frozen food has increased significantly. Cold and freezer storage facilities are essential for storing a wide range of perishable goods such as fruits, vegetables, dairy products, meat, seafood, and frozen foods. Therefore, expansion of the food industry directly drives the need for cold and freezer storage solutions.

Report Outline	Global Cold & Freezer Rooms Market Report 2023
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