

Refrigeration Coolers Market Forecasts to 2030 – Global Analysis By Product (Display Coolers, Undercounter Coolers, Chest Coolers, Walk-in Coolers, Modular Refrigeration Systems, Freestanding Coolers, Built-in Coolers and Other Products), Refrigerant Type, Technology, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Refrigeration Coolers Market is accounted for \$4.54 billion in 2024 and is expected to reach \$7.41 billion by 2030 growing at a CAGR of 8.5% during the forecast period. Refrigeration coolers are systems or devices designed to maintain or lower the temperature of substances or environments. They work by transferring heat from the interior to the surroundings, typically through refrigeration cycles using refrigerants. They maintain precise temperature regulation to protect perishable items, equipment, or delicate materials, thereby preserving product quality and preventing deterioration or harm.

According to the Global Cold Chain Alliance (GCCA), the total capacity of refrigerated warehouses worldwide was 616 million cubic meters in 2018.

Market Dynamics:

Driver:

Increasing urbanization and population growth

As urban areas expand, there is a surge in the need for food, pharmaceuticals, and

other perishable goods, requiring efficient refrigeration systems. Higher population density results in more consumers, driving demand for refrigerated products in supermarkets, restaurants, and retail chains. Additionally, growing urban lifestyles and e-commerce have led to a rise in food deliveries, further fueling the demand for reliable refrigeration. The expansion of the middle class also increases disposable incomes, boosting consumption of refrigerated items.

Restraint:

Energy consumption concerns

Energy consumption concerns in refrigeration coolers arise due to the high electricity usage required for cooling systems to maintain optimal temperatures, especially in large-scale commercial applications. As energy costs rise and sustainability becomes a priority, businesses face pressure to adopt energy-efficient systems. The growing demand for more energy-efficient solutions adds a layer of complexity, making businesses hesitant to invest in cooling systems, thereby hampering the market expansion.

Opportunity:

Expanding retail & foodservice sectors

With the growth of supermarkets, grocery stores, restaurants, and food delivery services, the need for refrigeration systems to store perishable items such as dairy, meat, fruits, and beverages rises. These coolers help preserve freshness, safety, and quality, which are crucial for meeting consumer demands and regulatory requirements. Furthermore, the expansion of e-commerce platforms for grocery deliveries enhances the need for dependable and efficient refrigeration solutions. As these industries grow, the need for reliable, energy-efficient refrigeration coolers intensifies, leading to accelerated market growth.

Threat:

High upfront costs

Refrigeration coolers have high upfront costs due to the expense of advanced technology, energy-efficient systems, and quality materials required for durable and reliable performance. Installation costs, specialized components, and compliance with

safety and environmental standards also contribute to the initial investment. The need for ongoing maintenance and potential repairs further adds to financial strain, which hampers market growth.

Covid-19 Impact

The covid-19 pandemic significantly impacted the refrigeration coolers market, disrupting supply chains and manufacturing activities. Demand surged for cold storage solutions in the healthcare and food sectors due to the need for vaccine distribution and increased food delivery services. However, the market faced challenges like delayed shipments, labor shortages, and higher costs. While demand in the pharmaceutical and e-commerce sectors drove growth, the overall market saw fluctuations in growth due to economic uncertainties and restrictions on businesses.

The built-in coolers segment is expected to be the largest during the forecast period

The built-in coolers segment is predicted to secure the largest market share throughout the forecast period. Built-in coolers are refrigeration units designed to be seamlessly integrated into kitchen or living spaces, offering a sleek and efficient cooling solution. Typically installed under countertops or within cabinetry, these coolers are ideal for homes, offices, and commercial establishments. They provide a space-saving and aesthetically pleasing way to store beverages, food, and other perishable items while maintaining consistent temperatures.

The food & beverage industry segment is expected to have the highest CAGR during the forecast period

The food & beverage industry segment is anticipated to witness the highest CAGR during the forecast period. In the food and beverage industry, refrigeration coolers play a crucial role in preserving perishable products, maintaining product quality, and extending shelf life. They are vital in supermarkets, restaurants, warehouses, and food processing plants, helping to prevent spoilage, contamination, and waste. Refrigeration coolers also support efficient supply chain management and are key to maintaining freshness during transportation and storage.

Region with largest share:

Asia Pacific is expected to register the largest market share during the forecast period driven by rapid urbanization, rising disposable incomes, and expanding industries like

food processing, pharmaceuticals, and retail. Countries such as China, India, and Japan are major contributors due to their large populations and increasing demand for cold storage solutions. Government initiatives promoting energy-efficient and eco-friendly refrigeration technologies are further accelerating market expansion in the region.

Region with highest CAGR:

North America is expected to witness the highest CAGR over the forecast period fuelled by increasing demand from sectors like food retail, pharmaceuticals, and healthcare. The U.S. and Canada are major markets, with a focus on energy-efficient and sustainable refrigeration solutions. The rise in e-commerce and the food delivery industry further boosts the need for refrigeration systems, especially for perishable goods. Additionally, advancements in smart refrigeration technology are gaining traction in the region.

Key players in the market

Some of the key players profiled in the Refrigeration Coolers Market include Panasonic Corporation, GEA Group AG, Emerson Electric Corporation, Haier Group Corporation, Fujitsu General Limited, Danfoss A/S, Liebherr Group, Samsung Electronics Corporation, Mitsubishi Electric Corporation, Blue Star Limited, Carrier Global Corporation, Daikin Industries Limited, Trane Technologies plc, Johnson Controls International plc, Lennox International Inc., Midea Group, Viessmann Group, Electrolux AB, Arctic Glacier Ice and Kelvion.

Key Developments:

In October 2024, Panasonic has made a significant impact with its best-in-class refrigerated retail solutions, offering up to 60% more energy efficiency compared to conventional models. By reducing energy consumption, the solutions help businesses meet their sustainability goals, especially with growing consumer and regulatory pressure to reduce carbon footprints.

In July 2024, Kelvion introduced an innovative hybrid cooling system designed to significantly enhance thermal efficiency. This new system combines the benefits of both air-cooling and water-cooling technologies, optimizing the use of water and energy while reducing overall environmental impact.

Products Covered:

Display Coolers

Undercounter Coolers

Chest Coolers

Walk-in Coolers

Modular Refrigeration Systems

Freestanding Coolers

Built-in Coolers

Other Products

Refrigerant Types Covered:

Hydrofluorocarbons (HFCs)

Hydrochlorofluorocarbons (HCFCs)

Ammonia (R717)

Carbon Dioxide (CO₂)

Hydrocarbons

Other Refrigerant Types

Technologies Covered:

Vapour Compression Refrigeration

Cryogenic Refrigeration

Magnetic Refrigeration

Absorption Refrigeration

Thermoelectric Refrigeration

Other Technologies

End Users Covered:

Food & Beverage Industry

Pharmaceutical & Healthcare

Chemical Industry

Logistics & Warehousing

Retail Sector

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical

presence, and strategic alliances

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