

Europe Centralized Refrigeration Systems Market is registering a CAGR of 4.8%, expected to reach \$12.7 billion by 2032

Europe Centralized Refrigeration Systems Market: Growth, Trends, and Opportunities

WILMINGTON, DE, UNITED STATES, March 13, 2025 /EINPresswire.com/ -- The [Europe Centralized Refrigeration Systems](#) Market was valued at \$7.9 billion in 2022 and is projected to reach \$12.7 billion by 2032, growing at a compound annual growth rate (CAGR) of 4.8% during the forecast period from 2023 to 2032. Centralized refrigeration systems are essential in industries such as food & beverage, pharmaceuticals, healthcare, and retail. These systems consist of key components, including compressors, condensers, evaporators, control systems, and other elements that enable efficient cooling through a network of pipes circulating refrigerant.

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Market Overview

The market saw a temporary decline due to the COVID-19 pandemic, as the closure of retail stores, hotels, and restaurants led to reduced demand. However, the market rebounded by the end of 2021, driven by increasing demand in the food & beverage and pharmaceutical sectors. The growing reliance on refrigeration systems for food preservation and pharmaceutical storage is expected to accelerate market growth.

Market Segments

By Type: Industrial, Commercial, Residential & Specialized Applications

Rising consumption of packaged and processed foods is fueling demand for centralized refrigeration.

Growth in cold storage facilities and refrigerated warehouses supports the expanding food supply chain.

Expansion of Healthcare and Pharmaceutical Sectors

Europe's aging population is increasing demand for medical supplies, vaccines, and pharmaceuticals requiring cold storage.

Refrigerated warehouses are being established to store critical medical supplies safely.

Technological Advancements

IoT-enabled refrigeration solutions enhance monitoring and energy efficiency.

Companies such as Zerynth S.p.A. and IoT-Labs provide smart refrigeration monitoring solutions.

Market Restraints

High Energy Consumption

Centralized refrigeration systems require significant energy, leading to high operational costs.

Maintenance costs are substantial due to the need for continuous monitoring and upkeep.

Stringent Environmental Regulations

The European Union (EU) is enforcing stricter regulations to reduce the use of harmful refrigerants.

Phase-out of F-gases is pushing the industry toward adopting alternative refrigerants like ammonia and carbon dioxide.

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Expansion of Cold Storage Facilities

Increasing investments in refrigerated warehouses and logistics hubs across Europe.

Government and private sector initiatives are promoting energy-efficient refrigeration technologies.

Adoption of Sustainable Refrigerants

Companies are shifting toward natural refrigerants like ammonia (NH₃) and carbon dioxide (CO₂).

New eco-friendly refrigeration solutions align with EU environmental policies.

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Refrigeration Market

By Component

Compressor – The dominant segment in 2022, essential for pressurizing and circulating refrigerant.

Condenser – Plays a critical role in dissipating heat from the system.

Evaporator – Ensures effective cooling by absorbing heat from the surrounding environment.

Controls – Expected to exhibit the highest CAGR due to increasing adoption of smart control systems.

Others – Includes essential accessories such as valves, pumps, and refrigerant tanks.

By Refrigerant Type

Ammonia (NH₃) – Widely used in large industrial plants due to high efficiency and low environmental impact.

Carbon Dioxide (CO₂) – Gaining popularity due to low toxicity and sustainability benefits.

F-Gases – Facing phase-out due to environmental concerns and EU regulations.

Others – Includes alternative natural refrigerants such as water and air.

By End-User Industry

Commercial

Includes hotels, restaurants, catering services, and retail stores.

Largest segment in 2022 due to high demand for refrigerated food storage.

Industrial

Includes refrigerated warehouses, food processing plants, and pharmaceutical facilities.

Increasing reliance on centralized refrigeration systems in pharmaceutical manufacturing and logistics.

By Region

Germany – A leading market due to its strong industrial and food & beverage sectors.

France – Growth driven by expanding retail and hospitality industries.

United Kingdom – Expected to register the highest CAGR due to rapid adoption of sustainable refrigeration technologies.

Italy & Spain – Experiencing growth due to investments in food processing and healthcare.

Netherlands & Rest of Europe – Key hubs for cold storage and logistics infrastructure.

Key Market Players

Leading players in the Europe centralized refrigeration systems market include:

Johnson Controls

Carrier Global Corporation

Emerson Electric Co.

GEA Group

Bitzer Kühlmaschinenbau GmbH

LU-VE S.p.A.

Danfoss

EVAPCO Inc.

Daikin

Industrial Frigo Srl

Recent Developments

Acquisitions:

Johnson Controls acquired Hybrid Energy AS in January 2023 to enhance environmental and decarbonization solutions.

Daikin acquired Citizen Industries' air handling business in December 2020 to expand its air conditioning and chiller offerings.

Expansions & Product Development:

In May 2023, GEA AWP launched ValveCalc 7.5, a refrigeration design program improving system efficiency and safety.

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