

# **Industrial Refrigeration System Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

<https://marketpublishers.com/r/I0A12887A523EN.html>

Date: May 2025

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: I0A12887A523EN

## **Abstracts**

The Global Industrial Refrigeration System Market was valued at USD 19 billion in 2024 and is estimated to grow at a CAGR of 6.2% to reach USD 34.4 billion by 2034, driven by the increase in demand for perishable products like pharmaceuticals and food items. As cold chain logistics continue to scale to meet global supply needs, the demand for dependable refrigeration technologies has become critical to safeguard product quality and safety during transportation and warehousing. This growth trend is further amplified by the increased emphasis on sustainability, operational efficiency, and advanced automation across industrial sectors.

Sustainability goals and tightening environmental regulations are reshaping the refrigeration landscape. Industries are rapidly transitioning from traditional refrigerants to eco-friendly alternatives such as carbon dioxide and ammonia due to their low or zero global warming and ozone depletion potential. This market shift is reinforced by innovations in energy-efficient cooling technologies and smart monitoring systems. Developments like renewable energy-based hybrid refrigeration setups and the integration of digital monitoring tools are helping companies reduce emissions and streamline energy usage. The focus is increasingly shifting toward cleaner operations without compromising performance.

The ammonia refrigerant segment generated USD 7.9 billion in 2024 and is projected to hit USD 15.9 billion by 2034. Ammonia remains one of the most preferred choices in large-scale industrial cooling systems because of its high energy efficiency and strong thermodynamic performance. With zero ozone-depleting characteristics and no contribution to global warming, ammonia-based systems align closely with regulatory priorities. These systems are widely implemented in cold storage, chemical plants, and

food production facilities due to their proven cost-effectiveness and scalability.

The food & beverage segment generated USD 9 billion in 2024. This industry's requirement for exact, hygienic temperature control throughout the entire production-to-distribution chain drives strong demand for industrial refrigeration. From dairy and seafood to frozen meals and beverages, products depend on uninterrupted cooling to maintain freshness, comply with safety regulations, and prevent contamination. Technological advances, including natural refrigerants and real-time performance tracking, help operators reduce waste, manage energy use, and meet international compliance benchmarks.

United States Industrial Refrigeration System Market generated USD 3.3 billion in 2024 and is projected to register a CAGR of 5.1% through 2034. Its robust infrastructure in food manufacturing, pharmaceuticals, and cold chain logistics places the US at the forefront of market development. The country's leadership is supported by a strong presence of refrigerated storage capacity and widespread adoption of advanced systems across logistics networks.

To solidify their market position, leading companies like Johnson Controls, Dorin S.p.A, Emerson Electric, GEA, Bitzer SE, and MAYEKAWA focus on product innovation, environmentally safe refrigerant solutions, and strategic collaborations. Many invest in R&D to enhance energy efficiency and automation capabilities while expanding their global manufacturing footprint. Additionally, partnerships with logistics providers and cold storage operators allow companies to co-develop tailored systems that meet regional demands. These strategies are aimed at not only meeting regulatory standards but also maintaining long-term customer relationships through service excellence and innovation.

### **Companies Mentioned**

Bitzer SE, Danfoss, Dorin S.p.A, Emerson Electric Co., EVAPCO, Inc., Frick India Limited, GEA, Howden Group, Ingersoll-Rand Plc, Johnson Controls, Kirloskar Pneumatic Co. Ltd., LEWA GmbH, M&M Systems, Inc., MAYEKAWA Mfg. Co., LTD., Rivacold Srl

## Contents

### CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast parameters
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

### CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

### CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
  - 3.1.1 Factor affecting the value chain
  - 3.1.2 Profit margin analysis
  - 3.1.3 Disruptions
  - 3.1.4 Future outlook
  - 3.1.5 Manufacturers
  - 3.1.6 Distributors
- 3.2 Trump administration tariffs analysis
  - 3.2.1 Impact on trade
    - 3.2.1.1 Trade volume disruptions
    - 3.2.1.2 Retaliatory measures
  - 3.2.2 Impact on the industry
    - 3.2.2.1 Supply-side impact (raw materials)
      - 3.2.2.1.1 Price volatility in key materials
      - 3.2.2.1.2 Supply chain restructuring
      - 3.2.2.1.3 Production cost implications
    - 3.2.2.2 Demand-side impact (selling price)
      - 3.2.2.2.1 Price transmission to end markets
      - 3.2.2.2.2 Market share dynamics
      - 3.2.2.2.3 Consumer response patterns

- 3.2.3 Key companies impacted
- 3.2.4 Strategic industry responses
  - 3.2.4.1 Supply chain reconfiguration
  - 3.2.4.2 Pricing and product strategies
  - 3.2.4.3 Policy engagement
- 3.2.5 Outlook and future considerations
- 3.3 Supplier landscape
- 3.4 Technology overview
- 3.5 Key news & initiatives
- 3.6 Regulatory landscape
- 3.7 Impact forces
  - 3.7.1 Growth drivers
    - 3.7.1.1 Expansion of cold chain logistics
    - 3.7.1.2 Technological advancements and energy efficiency
    - 3.7.1.3 Shift towards natural refrigerants
  - 3.7.2 Industry pitfalls & challenges
    - 3.7.2.1 High installation and operational costs
    - 3.7.2.2 Regulatory compliance and refrigerant availability
- 3.8 Growth potential analysis
- 3.9 Porter's analysis
- 3.10 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

- 4.1 Introduction
- 4.2 Industry structure and concentration
- 4.3 Competitive intensity assessment
- 4.4 Company market share analysis
- 4.5 Competitive positioning matrix
  - 4.5.1 Product positioning
  - 4.5.2 Price-performance positioning
  - 4.5.3 Geographic presence
  - 4.5.4 Innovation capabilities
- 4.6 Strategic dashboard
  - 4.6.1 Competitive benchmarking
    - 4.6.1.1 Manufacturing capabilities
    - 4.6.1.2 Product portfolio strength
    - 4.6.1.3 Distribution network
    - 4.6.1.4 R&D investments

- 4.6.2 Strategic initiatives assessment
- 4.6.3 SWOT analysis of key players
- 4.6.4 Future competitive outlook

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY COMPONENT, 2021 – 2034 (USD BILLION) (THOUSAND UNITS)**

- 5.1 Key trends
- 5.2 Compressor
  - 5.2.1 Rotary screw compressor
  - 5.2.2 Centrifugal compressor
  - 5.2.3 Reciprocating compressors
  - 5.2.4 Diaphragm compressors
  - 5.2.5 Others
- 5.3 Condenser
- 5.4 Evaporator
- 5.5 Controls
- 5.6 Others

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY REFRIGERANT TYPE, 2021 – 2034, (USD BILLION) (THOUSAND UNITS)**

- 6.1 Key trends
- 6.2 Ammonia (NH<sub>3</sub>)
- 6.3 Freon (CFCs, HCFCs, HFCs)
- 6.4 CO<sub>2</sub> (carbon dioxide)
- 6.5 Others

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY CAPACITY, 2021 – 2034, (USD BILLION) (THOUSAND UNITS)**

- 7.1 Key trends
- 7.2 Below 500KW
- 7.3 0.5 – 1MW
- 7.4 1-5 MW
- 7.5 Above 5MW

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021 – 2034, (USD BILLION) (THOUSAND UNITS)**

- 8.1 Key trends
- 8.2 Food and beverage industry
- 8.3 Chemical and petrochemical industry
- 8.4 Pharmaceutical industry
- 8.5 Logistics and cold chain
- 8.6 Others

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021 – 2034, (USD BILLION) (THOUSAND UNITS)**

- 9.1 Key trends
- 9.2 Direct
- 9.3 Indirect

## **CHAPTER 10 MARKET ESTIMATES & FORECAST, BY REGION, 2021 – 2034, (USD BILLION) (THOUSAND UNITS)**

- 10.1 Key trends
- 10.2 North America
  - 10.2.1 U.S.
  - 10.2.2 Canada
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 U.K.
  - 10.3.3 France
  - 10.3.4 Italy
  - 10.3.5 Spain
- 10.4 Asia Pacific
  - 10.4.1 China
  - 10.4.2 India
  - 10.4.3 Japan
  - 10.4.4 South Korea
  - 10.4.5 Australia
- 10.5 Latin America
  - 10.5.1 Brazil
  - 10.5.2 Mexico
  - 10.5.3 Argentina
- 10.6 MEA

10.6.1 UAE

10.6.2 Saudi Arabia

10.6.3 South Africa

## **CHAPTER 11 COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL DATA, PRODUCT LANDSCAPE, STRATEGIC OUTLOOK, SWOT ANALYSIS)**

11.1 Bitzer SE

11.2 Danfoss

11.3 Dorin S.p.A

11.4 Emerson Electric Co.

11.5 EVAPCO, Inc.

11.6 Frick India Limited

11.7 GEA

11.8 Howden Group

11.9 Ingersoll-Rand Plc

11.10 Johnson Controls

11.11 Kirloskar Pneumatic Co. Ltd.

11.12 LEWA GmbH

11.13 M&M Systems, Inc.

11.14 MAYEKAWA Mfg. Co., LTD.

11.15 Rivacold Srl

## I would like to order

Product name: Industrial Refrigeration System Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Product link: <https://marketpublishers.com/r/I0A12887A523EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I0A12887A523EN.html>