

# **Refrigerated Trailer Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Temperature (Single temperature, Multi-temperature, Cryogenic), By Application (Food & beverages, Pharmaceuticals, Chemicals, Others), By End Use (Transportation, Storage, Distribution), By Region & Competition, 2020-2030F**

<https://marketpublishers.com/r/RB930D7F28C5EN.html>

Date: June 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: RB930D7F28C5EN

## **Abstracts**

### Market Overview

The Global Refrigerated Trailer Market was valued at USD 6.8 billion in 2024 and is anticipated to reach USD 9.7 billion by 2030, growing at a CAGR of 6.3% during the forecast period. Rising demand for cold chain logistics to handle perishable goods such as fresh produce, pharmaceuticals, dairy, and frozen foods is driving the expansion of the refrigerated trailer market. These trailers provide mobile, temperature-controlled storage critical for maintaining product integrity throughout transportation. As regulatory standards surrounding food and drug safety intensify, businesses are turning to technologically advanced trailers to ensure compliance and minimize spoilage. Fleet operators are increasingly integrating telematics, IoT, and AI-based systems to monitor temperature, improve efficiency, and streamline asset tracking. The shift toward sustainable logistics is also fostering the adoption of electric and hybrid refrigeration units aimed at reducing emissions and fuel dependency. This evolving market landscape highlights the growing importance of smart, efficient, and eco-conscious solutions in modern cold chain operations.

### Key Market Drivers

## Expansion of Cold Chain Infrastructure

The rising global emphasis on safe and efficient distribution of temperature-sensitive goods is driving investments in cold chain infrastructure. Retailers, logistics providers, and government agencies are upgrading transportation and storage networks to meet growing demand for reliable cold logistics. Refrigerated trailers serve as a key component in mobile cold storage, bridging gaps between static facilities and last-mile delivery. The increasing complexity of cold chains, especially in urban and emerging markets, necessitates trailers equipped with advanced temperature control and real-time monitoring features. These trailers support diverse sectors—from food production to pharmaceuticals—ensuring cargo safety and regulatory compliance during transit. As a result, logistics companies are modernizing their fleets to enhance cold chain efficiency and minimize risks associated with spoilage, contamination, or shipment delays.

### Key Market Challenges

#### High Capital and Operating Costs

The acquisition and maintenance of refrigerated trailers involve substantial costs due to specialized refrigeration systems, insulation materials, and electronic controls. The initial purchase price of a refrigerated trailer is significantly higher than that of a conventional trailer, making it a financial hurdle for small and mid-sized operators. Moreover, operating costs—such as fuel for continuous cooling, maintenance of refrigeration units, and the need for skilled technicians—add ongoing financial strain. Spare parts and service requirements further increase total cost of ownership, especially in regions with limited infrastructure for refrigeration support. In addition, evolving environmental regulations may require costly upgrades or replacements to meet compliance, adding another layer of investment. These combined factors challenge operators seeking to expand fleets while maintaining profitability and reliability under strict temperature control requirements.

### Key Market Trends

#### Adoption of Electric and Hybrid Refrigeration Units

The push for eco-friendly logistics is accelerating the use of electric and hybrid refrigeration systems in trailers. Traditional diesel-powered units contribute significantly to emissions and fuel use, prompting a shift toward cleaner alternatives. Electric refrigeration systems, powered by onboard batteries, and hybrid systems that blend

electric and diesel technologies are gaining traction due to their reduced environmental impact and operational efficiency. These systems are particularly well-suited for urban distribution where low-emission zones and anti-idling regulations are becoming standard. Improvements in battery technology—such as higher capacity and energy efficiency—are enhancing the viability of electric cooling systems for longer routes. Solar panels mounted on trailers further support energy sustainability. Regulatory incentives and green logistics mandates are also encouraging adoption. As fleets evolve to meet sustainability targets, electric and hybrid refrigeration solutions are becoming a key component of next-generation refrigerated transport.

### Key Market Players

Carrier Transicold

Great Dane Trailers

Hyundai Translead

Lamberet

Manac

Schmitz Cargobull

Singamas Container

Thermo King

Utility Trailer Manufacturing Company

Wabash National

### Report Scope:

In this report, the Global Refrigerated Trailer Market has been segmented into the following categories, in addition to the industry trends which have also been detailed

below:

#### Refrigerated Trailer Market, By Temperature:

Single temperature

Multi-temperature

Cryogenic

#### Refrigerated Trailer Market, By Application:

Food & beverages

Pharmaceuticals

Chemicals

Others

#### Refrigerated Trailer Market, By End Use:

Transportation

Storage

Distribution

#### Refrigerated Trailer Market, By Region:

North America

United States

Canada

Mexico

## Europe & CIS

Germany

France

U.K.

Spain

Italy

## Asia-Pacific

China

Japan

India

South Korea

## Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

## South America

Brazil

Argentina

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Refrigerated Trailer Market.

## Available Customizations:

Global Refrigerated Trailer Market report with the given market data, TechSci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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