

Global Refrigerated Trucking Market Set to Surge, Projected to Reach \$398.63 Billion by 2034

The global refrigerated trucking market is growing rapidly, driven by rising demand for temperature-sensitive goods, expanding food and pharmaceutical sectors

VANCOUVER, BC, CANADA, August 25, 2025 /EINPresswire.com/ -- The global [Refrigerated Trucking Market](#) is witnessing remarkable growth,

expected to rise from \$39.38 billion in 2024 to \$398.63 billion by 2034, registering a strong CAGR of 26.05%. This growth is driven by the rising demand for temperature-sensitive goods, advanced logistics infrastructure, and the increasing need for efficient cold chain solutions across industries.

North America leads the market, supported by robust logistics networks and growing demand for perishable goods. Meanwhile, Asia Pacific is emerging as the fastest-growing region, fueled by rapid urbanization, rising pharmaceutical needs, and increased consumption of fresh and frozen food products.

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Key Market Drivers

Rising demand for temperature-sensitive goods: Growth in global food trade and consumer demand for fresh and frozen products are fueling market expansion.

Pharmaceutical industry growth: Increased production and global distribution of temperature-sensitive drugs and vaccines are driving significant demand for cold chain logistics.

Technological advancements: Energy-efficient trucks and advanced temperature-control systems are improving service quality and operational efficiency.



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Supportive regulations and investments: Regulatory reforms and infrastructure funding, such as the U.S. Department of Transportation's \$1.2 billion allocation for cold chain enhancements, are boosting industry growth.

Challenges in the Market

Despite rapid expansion, the industry faces challenges like high operational costs due to fuel expenses and maintenance, and stringent regulatory requirements for temperature compliance. Technology integration, such as IoT-enabled monitoring, adds to upfront costs but is essential for maintaining standards and operational efficiency.

Market Segmentation Highlights

By Product Type

Refrigerated Trailers dominate the market, projected to grow from \$20 billion in 2024 to \$200 billion by 2034. Their high capacity and efficiency make them the preferred choice for bulk transportation.

Refrigerated Vans are the fastest-growing segment with a 28% CAGR, driven by e-commerce, home delivery services, and meal kit businesses requiring flexible urban delivery solutions.

By Application

Food & Beverage remains the largest segment, expected to jump from \$25 billion in 2024 to \$250 billion by 2034.

Pharmaceuticals is the fastest-growing segment with a 29% CAGR, driven by the increasing need for reliable transportation of sensitive medicines and vaccines.

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By End User

Retail leads the market, forecasted to grow from \$15 billion in 2024 to \$150 billion by 2034, supported by the rise of online grocery platforms and expanding supermarket chains.

Logistics companies are growing at the fastest rate (28.5% CAGR), driven by the demand for efficient temperature-controlled supply chain solutions.

By Technology

Advanced refrigeration systems are gaining momentum with a 30% CAGR, thanks to eco-friendly refrigerants and energy-efficient designs.

Conventional systems still hold the largest market share due to lower costs and wide availability but are gradually being replaced by greener alternatives.

By Distribution Channel

Direct sales dominate the market, expected to grow from \$30 billion in 2024 to \$300 billion by 2034, preferred by large retailers and logistics operators.

Distributors are gaining traction among small and medium-sized enterprises seeking affordable and accessible solutions.

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Regional Insights

North America maintains leadership with advanced infrastructure and strict quality standards for perishable goods transportation.

Asia Pacific is the fastest-growing region, driven by rapid urbanization, growing pharmaceutical needs, and higher demand for processed and frozen food.

Europe is seeing steady growth, supported by sustainability initiatives like the EU Green Deal, which encourages energy-efficient and eco-friendly cold chain logistics solutions.

Key Industry Players

Major players like C.H. Robinson, J.B. Hunt Transport Services, and FedEx are investing heavily in fleet expansion and technology integration to improve efficiency and meet the growing demand. Companies like Thermo King are also innovating with advanced refrigeration units, ensuring better control and sustainability.

Sustainability Trends

Green logistics is becoming a priority in the refrigerated trucking industry. There has been a 30% rise in the adoption of eco-friendly refrigerants and energy-efficient trucks, as companies aim to reduce carbon emissions and meet global sustainability standards.

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Refrigerated Trucking Competitive Strategies & Notable Developments

C.H. Robinson

J.B. Hunt Transport Services

FedEx

DHL

DB Schenker

Kuehne + Nagel

Nippon Express

Yamato Holdings

SF Express

Aramex

Refrigerated Trucking Market Segmentation

By Product Type

Refrigerated Trailers

Refrigerated Vans

Refrigerated Trucks

By Application

Food and Beverage

Pharmaceuticals

Chemicals

Others

By End User

Retail

Logistics Companies

Food Service Providers

Healthcare Facilities

By Technology

Conventional Refrigeration

Advanced Refrigeration Systems

By Distribution Channel

Direct Sales

Distributors

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