

Freedonia Focus Reports
US Collection



Transport Refrigeration Systems: United States

April 2018



CLICK TO ORDER
FULL REPORT
BROCHURE
CLICK TO ORDER
FULL REPORT

www.freedoniafocusreports.com

Table of Contents

1. Highlights	3
2. Market Environment	4
Historical Trends	4
Key Economic Indicators	6
Technology	7
Environmental & Regulatory Factors	8
3. Segmentation & Forecasts	10
Products	10
Trailers	13
Shipping Containers	14
Trucks	14
Markets	16
Food & Beverage Distribution	16
Other Markets	17
4. Industry Structure	19
Industry Characteristics	19
Market Leaders	20
Ingersoll-Rand	20
United Technologies	21
5. About This Report	22
Scope & Method	22
Sources	23
Industry Codes	23
Resources	24

List of Tables & Figures

Figure 1 Key Trends in the US Transport Refrigeration System Market, 2017 – 2022	3
Figure 2 US Transport Refrigeration System Demand Trends, 2007 – 2017	4
Table 1 Key Indicators for US Transport Refrigeration System Demand, 2007 – 2022	6
Figure 3 US Transport Refrigeration System Demand by Product, 2007 – 2022 (US\$ mil)	10
Table 2 US Transport Refrigeration System Demand by Product, 2007 – 2022 (US\$ mil)	10
Figure 4 US Transport Refrigeration System Demand by Product, 2007 – 2022 (000 units)	11
Table 3 US Transport Refrigeration System Demand by Product, 2007 – 2022 (000 units)	12
Table 4 US Transport Refrigeration System Supply & Demand, 2007 – 2022 (US\$ mil)	12
Figure 5 US Transport Refrigeration System Demand by Product Value, 2007 – 2022 (%)	15
Figure 6 US Transport Refrigeration System Demand by Market, 2007 – 2022 (US\$ mil)	16
Table 5 US Transport Refrigeration System Demand by Market, 2007 – 2022 (US\$ mil)	16
Figure 7 US Transport Refrigeration System Demand by Market, 2007 – 2022 (%)	18
Table 6 Major Suppliers to the US Transport Refrigeration System Market	20
Table 7 Industry Codes Related to Transport Refrigeration Systems	23

About This Report

Scope & Method

This report forecasts to 2022 US transport refrigeration system demand and shipments in nominal US dollars at the manufacturer level. Demand is also forecasted to 2022 in units. Total demand in value and unit terms is segmented by product in terms of:

- trailers
- shipping containers
- trucks

Total demand in value terms is also segmented by market as follows:

- food distribution
- other markets such as food and beverage retail, and food and beverage production

To illustrate historical trends, total demand in value terms is provided in annual series from 2007 to 2017; total shipments by value, total demand by units, and the various segments are reported at five-year intervals for 2007, 2012, and 2017.

Included in this report are only the refrigeration units installed on trailers, shipping containers, and trucks. For the purposes of this report, “food” is occasionally used to refer to both food and beverages. Excluded from the scope of this report are:

- air conditioning systems
- all refrigeration equipment designed for residential use
- revenues generated from service and maintenance activities on commercial refrigeration equipment
- containers that house food and beverage products for transport
- equipment used in liquid natural gas facilities, as the capacity of these products exceeds the defined size of commercial refrigeration equipment

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

About This Report

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Transport Refrigeration Systems: United States (FF85034) is based on *Commercial Refrigeration Equipment in the US*, a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 7 | Industry Codes Related to Transport Refrigeration Systems

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
333412	Industrial & Commercial Fan & Blower Mfg	3564	Industrial & Commercial Fans & Blowers & Air Purification Equipment
333415	Air-Conditioning & Warm Air Heating Equipment & Commercial & Industrial Refrigeration Equipment Mfg	3585	Air-Conditioning & Warm Air Heating Equipment & Commercial & Industrial Refrigeration Equipment
334512	Automatic Environmental Control Mfg for Residential, Commercial, & Appliance Use	3822	Automatic Controls for Regulating Residential & Commercial Environments & Appliances

Source: US Census Bureau

Copyright & Licensing

The full report is protected by copyright laws of the United States of America and international treaties. The entire contents of the publication are copyrighted by The Freedonia Group.

Resources

The Freedonia Group

Commercial Refrigeration Equipment in the US, April 2018

Freedonia Industry Studies

US HVAC Market Forecasts, June 2017

Air Conditioning Equipment Market in the US, May 2017

Heat Pump Market in the US, March 2017

World Commercial Refrigeration Equipment, October 2016

World HVAC Equipment, May 2016

World Major Household Appliances, February 2016

Freedonia Focus Reports

Beverages: United States

Food Processing Machinery: United States

Frozen Foods: United States

Household Refrigerators & Freezers: United States

HVAC Equipment: United States

Medium- & Heavy-Duty Trucks & Buses: United States

Processed Food: United States

Restaurants & Foodservice: United States

Transport Equipment: United States

Vending Machines: United States

Freedonia Custom Research

Trade Publications

The Air Conditioning, Heating, and Refrigeration NEWS

Chain Store Age

Nation's Restaurant News

Winsight Grocery Business

Agencies & Associations

Air-Conditioning, Heating, and Refrigeration Institute

American Society of Heating, Refrigerating and Air-Conditioning Engineers

American Society of Mechanical Engineers

Heating, Air-Conditioning and Refrigeration Distributors International

United States Census Bureau

United States Department of Energy

United States Environmental Protection Agency

United States International Trade Commission