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Commercial Refrigeration Equipment: United States

April 2018



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About This Report

Scope & Method

This report forecasts to 2022 US commercial refrigeration equipment demand and shipments in nominal US dollars. Total demand is segmented by product in terms of:

- transportation refrigeration systems
- refrigerators and freezers
- beverage refrigeration equipment
- other products such as display cases, ice machines, liquid chillers, and cryogenic equipment
- parts

Total demand is also segmented by market as follows:

- food and beverage retail
- foodservice
- food and beverage distribution
- food and beverage production
- other markets such as hotels and motels, medical and scientific establishments, and office buildings

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

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

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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.

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

Commercial Refrigeration Equipment: United States (FF75012) 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 Commercial Refrigeration Equipment

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
333311	Automatic vending machine manufacturing	3581	Automatic vending machines
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	3585	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment

Source: US Census Bureau

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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

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Beverages: United States

Food Processing Machinery: United States

Frozen Foods: United States

Household Cooking Appliances: United States

Household Refrigerators & Freezers: United States

HVAC Equipment: United States

Major Household Appliances: United States

Restaurants & Foodservice: United States

Small Kitchen Appliances: United States

Soft Drinks: 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 International Trade Commission