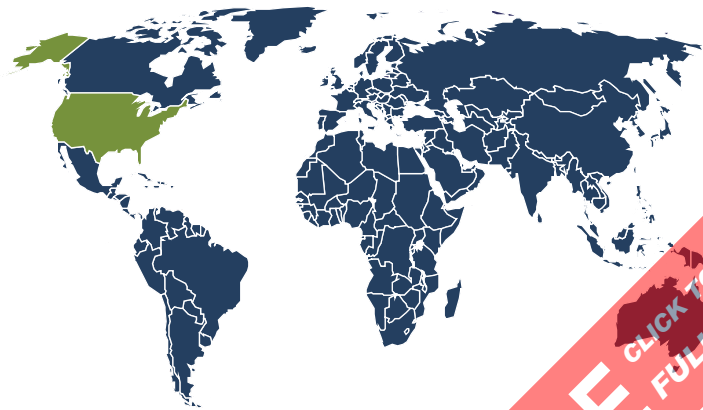


Freedonia Focus Reports
US Collection



Heat Pumps: United States

March 2017



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Trade | Refrigerant Regulations

Segmentation and Forecasts

Products | Markets | Shipments

Industry Structure

Industry Characteristics | Market Share

Resources

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ABOUT THIS REPORT

Scope & Method

This report forecasts US heat pump demand and shipments in US dollars at the manufacturers' level to 2021. Total demand and shipments are segmented by product in terms of:

- air source
- geothermal.

For the purposes of this report demand only includes heat pumps that provide comfort heating and cooling; heat pumps that solely supply domestic hot water are excluded.

Total demand is also segmented by market as follows:

- commercial
- residential.

To illustrate historical trends, total demand and total shipments are provided in annual series from 2006 to 2016; the various segments are reported at five-year intervals for 2006, 2011, and 2016.

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.

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

Heat Pumps: United States (FF75046) is based on *Heat Pump Market 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:

ABOUT THIS REPORT

- 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 Heat Pumps

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Mfg	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

Freedonia Industry Studies

Heat Pump Market in the US, March 2017

World Commercial Refrigeration Equipment, October 2016

World HVAC Equipment, May 2016

Air & Fluid Filters, April 2016

Commercial Refrigeration Equipment, March 2016

World Major Household Appliances, February 2016

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Air & Fluid Filters: United States

Commercial Refrigeration Equipment: United States

Construction: United States

HVAC Equipment: United States

Major Household Appliances: United States

Nonresidential Building Construction: United States

Prefabricated Housing: United States

World Air & Fluid Filters

World Commercial Refrigeration Equipment

World HVAC Equipment

World Major Household Appliances

World Prefabricated Housing

Freedonia Custom Research

Trade Publications

Air Conditioning, Heating & Refrigeration News

Appliance Design

Contractor

Engineered Systems

Agencies & Associations

Air Conditioning, Heating, and Refrigeration Institute

American Society of Heating, Refrigerating, and Air-Conditioning Engineers

Geothermal Exchange Organization

Institute of Heating and Air Conditioning Industries

United States Census Bureau

United States Environmental Protection Agency

United States International Trade Commission