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HVAC Equipment

US Industry Study with Forecasts for **2015 & 2020**

Study #2813 | November 2011 | $5100 | 329 pages

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The Freedonia Group
767 Beta Drive
Cleveland, OH • 44143-2326 • USA
Toll Free US Tel: 800.927.5900 or +1 440.684.9600
Fax: +1 440.646.0484
E-mail: info@freedoniagroup.com

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US Industry Study with Forecasts for ***2015 & 2020***

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HVAC Equipment

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Rising interest in more energy-efficient, higher-priced HVAC systems, in part spurred by regulatory changes, will help support increased demand -- particularly in value terms.

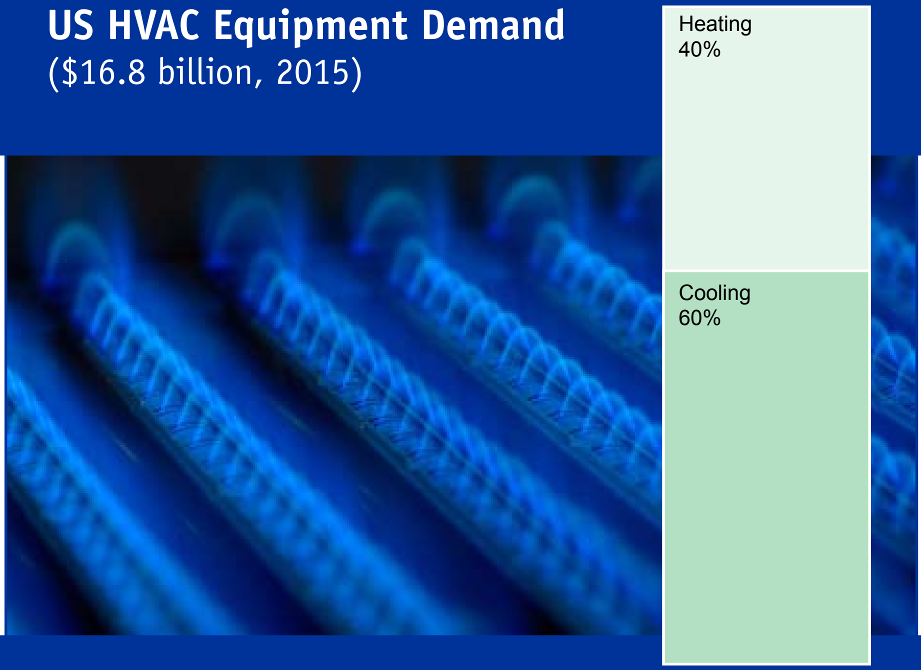
US demand to rise 5.1% annually through 2015

Demand in the US for heating, ventilation and air conditioning (HVAC) equipment is projected to increase 5.1 percent annually to $16.8 billion in 2015. Advances will be stimulated by growth in residential and many types of nonresidential construction spending from a low 2010 base. Rising interest in more energy-efficient HVAC systems, in part spurred by regulatory changes, will also support increased demand -- particularly in value terms since more efficient systems and those using less environmentally harmful refrigerants are typically priced at a premium. Furthermore, public and private incentives will encourage owners to upgrade to models with efficiency ratings that are at or above ENERGY STAR levels.

Geothermal energy systems to post strongest growth

The choice between various HVAC equipment fuels is largely influenced by the convenience, environmental friendliness, availability and price of the fuels, as well as the initial costs, operating costs and efficiency of the equipment. In 2010, electricity was the dominant fuel source, accounting for 78 percent of the market. Sales of geothermal energy-powered systems are expected to post the strongest average annual growth through 2015, driven by interest in these efficient and environmentally friendly HVAC systems, as well as by tax incentives encouraging their installation.

US HVAC Equipment Demand
($16.8 billion, 2015)



Unitary air conditioners to remain largest cooling system segment

Unitary air conditioners are the largest segment of the cooling system market, accounting for nearly three-quarters of the total in 2010. In addition, demand for unitary systems will increase at an above-average pace, benefiting from the continuing development of higher-efficiency models and from gains in the share of homes with central air conditioning. The cooling equipment industry is affected by a variety of regulations, including those involving ozone-depleting hydrochlorofluorocarbon refrigerants. For example, in 2010 the production and import of HCFC-142b and R-22 were banned.

Heat pumps to be fastest growing heating equipment

Heat pumps accounted for the largest share of heating equipment value demand in 2010 and have been supplanting less efficient equipment and those that provide heating only. Through 2015, demand for heat pumps is expected to post the strongest gains of any heating equipment, supported by their ability to provide efficient heating and cooling in moderate climates, and by rising interest in geothermal versions. Demand for boilers will also post above-average gains benefiting from the rebound in nonresidential and residential multiunit construction, and interest in radiant heating systems.

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Sample Text, Table & Chart

TABLE V-2

COOLING EQUIPMENT SHIPMENTS BY TYPE
(million dollars)

Item	2000	2005	2010	2015	2020
HVAC Equipment Shipments	11[illegible]				[illegible]00
% cooling					[illegible]2
Cooling Equipment Shipments					[illegible]0
Unitary Air Conditioners					[illegible]0
Room Air Conditioners					[illegible]5
Chillers					[illegible]0
Absorption Liquid Chilling Systems					[illegible]0
Dehumidifiers					[illegible]5
Packaged Terminal Air Conditioners					[illegible]0
$/unit					[illegible]0
Cooling Equipment Shpts (000 units)	1[illegible]				[illegible]0
% cooling					[illegible]6
HVAC Equipment Shipments (000 units)	[illegible]				[illegible]00

SAMPLE TABLE

HEATING & COOLING FUEL TYPES

Heating Oil

Demand for HVAC equipment that burns heating oil is [illegible] to [illegible] rough 2015. While this will re[illegible] an[illegible] he double-digit annual decline[illegible] be[illegible] still be the weakest performa[illegible] fu[illegible] gatively affected by competitio[illegible] na[illegible] es increasingly available in are[illegible] su[illegible] the Northeast and the Midwest[illegible] previously been the domain of fuel oil HVAC systems. Elec[illegible] alternative fuels, such as wood pellets, are also increasingly [illegible] Conversions are expected to quicken if proposed regulations [illegible] oil regarding carbon emissions and the increased use of biod[illegible] low-sulfur heating oil are passed and result in higher heating [illegible] Additionally, gains will be hampered by consumer perceptio[illegible] poor performance of heating oil-burning equipment.

SAMPLE TEXT

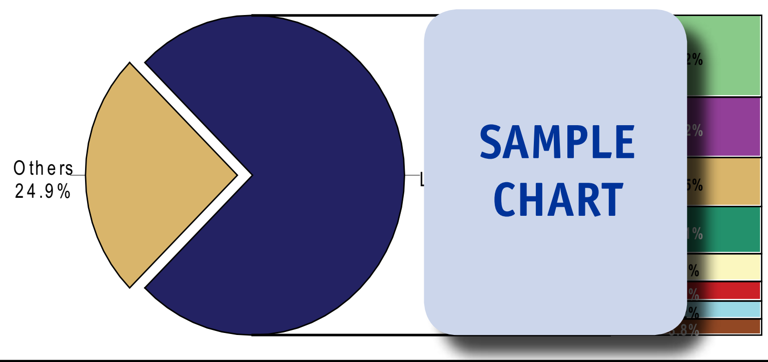
Despite the restraining factors, heating oil continues to be used in the Northeast and the Upper Midwest. This is partly because in parts of these regions electricity prices are high and natural gas lines are not available. Furthermore, heating oil equipment and fuel suppliers and related organizations have initiated programs to better educate building owners about heating oil -- particularly newer low-sulfur versions and those mixed with biodiesel -- and how it compares with other fuels. Growth will also be supported by tax incentives aimed at encouraging consumers to purchase more efficient oil-burning furnaces.

The types of HVAC systems that function using heating [illegible] warm air furnaces, and cast iron and stainless steel boilers. [illegible] natural gas burning systems, heating oil systems are powere[illegible] combustion process. When the thermostat indicates that the [illegible] perature has fallen below the preset level, the fuel valve regu[illegible] delivers oil to burners to restart the heating unit. In warm ai[illegible]

72 Copyright 2011

CHART VII-1

US HVAC EQUIPMENT MARKET SHARE
($13.1 billion, 2010)



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Sample Profile, Table & Forecast

TABLE IV-1

HEATING EQUIPMENT SUPPLY & DEMAND
(million dollars)

Item	2000	2005	2010	2015	2020
Building Construction Expend (bil $)					
$ heating equip/000$ construction					
Heating Equipment Demand					
Heat Pumps					
Warm Air Furnaces					
Boilers					
Room & Zone Heating Equipment					
Humidifiers					
+ net exports					
Heating Equipment Shipments					

SAMPLE TABLE

COMPANY PROFILES

Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216
210-546-
http://wv

Annual S
Employ

Key Pro

SAMPLE PROFILE

Frie ... e privately held US Natura ... Washington), is a manufacturer of specialty air treatment products for commercial and residential applications. The Company maintains production activities in Monterrey, Mexico.

The Company is active in the US HVAC equipment industry through the manufacture of air conditioners and dehumidifiers for the residential and commercial markets. Among the Company's products are room air conditioners, ductless split systems, packaged terminal air conditioners (PTACs), single package vertical units and portable air conditioners; and dehumidifiers.

Friedrich's room air conditioners are made in cooling-only, heat pump and cooling with electric heat configurations for residential and commercial end uses. These units are available with such features as two or three fan speeds, slide-out chassis, eight-way air controls and defrost controls. Room air conditioners comprise window and through-the-wall types. Window models include KÜHL high-performance, XSTAR small-profile and CP energy-efficient light-performance. series. These products feature cooling capacities of 5,500 to 36,000 British

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"Demand for heat pumps -- including air source and geothermal versions -- is projected to increase 7.6 percent annually to $3.4 billion in 2015. Gains will be supported by interest in more efficient heating and cooling systems which will lead to sales of more expensive high efficiency systems and also support the growth in the heat pump market at the expense of other, less efficient types of heating equipment."

--Section IV, pg. 86

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Other Studies

Filters

This study analyzes the US filter industry. It presents historical demand data for the years 2000, 2005 and 2010, and forecasts for 2015 and 2020 by media (e.g., paper, fabric, activated carbon), product (e.g., fluid filters, internal combustion engine filters, air filters) and market (e.g., motor vehicles, utilities, consumer). The study also considers market environment factors, details industry structure, evaluates company market share and profiles industry players.

#2801 .... November 2011 .... $5100

Filters in China

Demand for filters in China is projected to grow 13.5 percent annually through 2014, supported by rapid growth in transportation equipment production and stocks, and by energy conservation and emission reduction regulations. Internal combustion engine filters will remain the dominant product segment and will post the strongest gains. This study analyzes the 35.2 billion yuan filter industry in China, with forecasts for 2014 and 2019 by type and market. The study also evaluates company market share and profiles 36 industry participants.

#2740 .... March 2011................... $5300

World Commercial Refrigeration Equipment

Global demand for commercial refrigeration equipment will rise 5.2 percent annually through 2014. Demand will benefit from an acceleration in the key US market and above-average growth in the Asia/Pacific region. Beverage equipment will post the fastest gains among products. This study analyzes the $23.1 billion world commercial refrigeration equipment industry. It presents historical demand data and forecasts for 2014 and 2019 by product, world region and for 27 countries. It also evaluates company market share and profiles industry players.

#2706 ....January 2011 .... $5900

Commercial Refrigeration Equipment

Demand for commercial refrigeration equipment in the US is forecast to rebound through 2014, growing 7.2 percent annually. Growth will be strongest for the largest product segment, transportation systems. Distribution will post the strongest market gains, while foodservice remains the largest segment. This study analyzes the $6.6 billion US commercial refrigeration equipment industry, with forecasts for 2014 and 2019 by market and product. It also evaluates company market share and profiles industry players.

#2661 .... July 2010.................... $4800

World HVAC Equipment

Global demand for HVAC equipment will rise 6.2 percent yearly through 2014. China will be the fastest growing market and comprise about 40 percent of new growth. Despite a modest outlook initially, US demand will rise 8.1 percent yearly. Cooling equipment will continue to outpace heating equipment worldwide. This study analyzes the $68.9 billion world HVAC equipment industry, with forecasts for 2014 and 2019 by product, world region and for 18 countries. It also evaluates company market share and profiles industry participants.

#2637 .... May 2010.................... $5900

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