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Consumer Air Treatment Systems: United States

December 2017



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About This Report

Scope & Method

This report forecasts to 2021 US demand for consumer air treatment systems and replacement air filters in nominal US dollars at the manufacturer level. Total demand for consumer air treatment systems is segmented by product in terms of:

- whole-house
- portable units

Total demand for consumer air treatment systems is also segmented by technology as follows:

- conventional filtration
- electrostatic
- ionic
- other technologies such as photocatalytic oxidation (PCO), photoelectrochemical oxidation (PECO), and thermodynamic sterilizing system (TSS)

To illustrate historical trends, total demand for consumer air treatment systems is provided in annual series from 2006 to 2016; demand for replacement air filters and the various consumer air treatment system segments are reported at five-year intervals for 2006, 2011, and 2016.

This report covers the United States consumer market for air treatment systems primarily designed to decrease the amount of contaminants from air in households. Systems purchased by consumers for personal use outside of the home (e.g., during leisure activities, driving, work, or school) are also considered, as are replacement filters. Excluded are home air treatment systems that are classified simply as odor elimination products. In addition, air filters associated with equipment – e.g., refrigerator air filters, HVAC filters, and automotive cabin air filters – are excluded because these systems are originally sold to equipment manufacturers and only the replacement units are sold to consumers.

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

About This Report

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

Consumer Air Treatment Systems: United States (FF90024) is based on [Consumer Air Treatment Systems 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 6 | Industry Codes Related to Consumer Air Treatment Systems

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
322299	Filters, paper, made from purchased paper	2679	Converted Paper and Paperboard Products, NEC
333411	Air Purification Equipment Manufacturing	3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing		
335211	Electric Housewares and Household Fan Manufacturing		

Source: US Census Bureau

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Resources

The Freedonia Group

Consumer Air Treatment Systems in the US, December 2017

Freedonia Industry Studies

Consumer Water Treatment Systems in the US, October 2017

US HVAC Market Forecasts, June 2017

Global Filters Market Forecasts, March 2017

Global Air & Fluid Filters Market, January 2017

Activated Carbon, October 2016

World HVAC Equipment, May 2016

Air & Fluid Filters, April 2016

World Consumer Air Treatment Systems, March 2016

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Activated Carbon: United States

Air & Fluid Filters: United States

HVAC Equipment: United States

Major Household Appliances: United States

Nonwovens: United States

World Activated Carbon

World Air & Fluid Filters

World Filters

World HVAC Equipment

World Nonwovens

Freedonia Custom Research

Trade Publications

Air-Conditioning, Heating & Refrigeration News

appliance DESIGN

HBS Dealer

Home Furnishings News

HomeWorld Business

Agencies & Associations

American Lung Association

American National Standards Institute

American Society of Heating, Refrigerating and Air-Conditioning Engineers

Association of Home Appliance Manufacturers

Asthma and Allergy Foundation of America

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