

Air Innovations, Inc. is proud to introduce the **only** FDA registered air cleaner that maintains complete environmental control of a room. HEPAir® X100 combines heating, cooling, dehumidification, HEPA air filtration, pressurization and ventilation in one packaged, window mounted unit. It incorporates the same cleanroom technology used in sterile manufacturing and hospital operating rooms to produce extremely clean and healthy air. Scientific research has shown that poor indoor air quality (IAQ) is a probable cause of the symptoms of upper respiratory illnesses such as asthma and Chronic Obstructive Pulmonary Disease (COPD). HEPAir X100 is the **only** recirculating air cleaner that meets EPA's recommendations for improving IAQ by filtering the air with a HEPA filter and ventilating the room with fresh outside air.



HEPAir X100 is a unique, patented air cleaner that has shown promising results during research studies with asthmatic children conducted by Clarkson University. It is now registered with the US FDA as a Class II Medical Device (K112728) and approved for marketing and intended for over-the-counter use in filtering out airborne particles from air for medical purposes.

The HEPAir X100 quickly dilutes and filters the room air reducing the indoor pollutants that are often cited as causes of asthma, respiratory irritations and allergic reactions. It is a conveniently window-mounted or thru-wall device about the size of an air conditioner that uses HEPA-filtered fresh air ventilated from outdoors. HEPAir X100 is recommended for use in rooms of approximately 1000 ft<sup>3</sup> such as a bedroom or office where the occupant can be exposed to the clean air for an extended time.

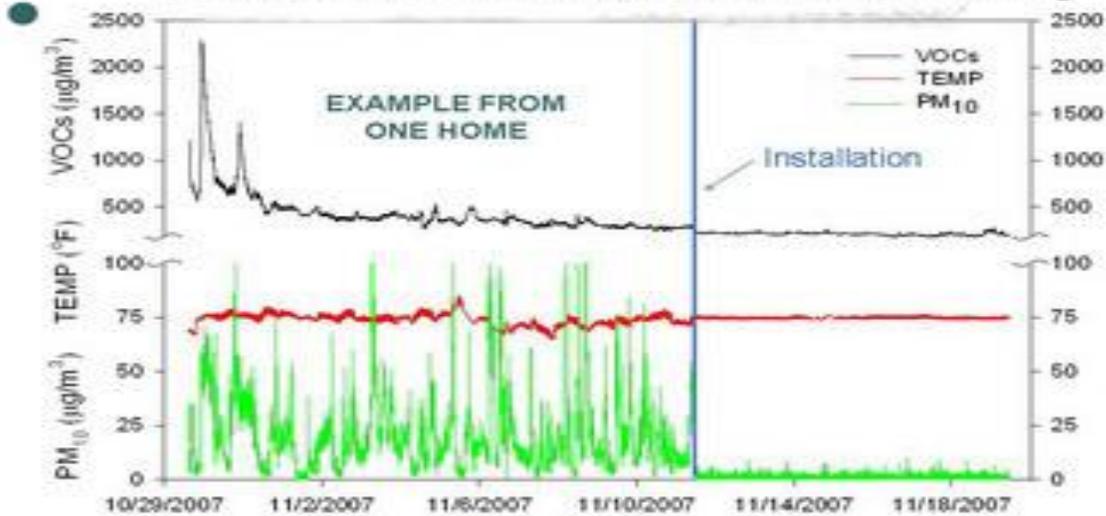
HEPAir X100 is made in Syracuse, New York by Air Innovations, one of the fastest growing privately held companies in the U.S. (*Inc. magazine* 2010, 2011). For more information, visit [www.airinnovations.com](http://www.airinnovations.com).

**HEPAir® X100**  
Ventilating air cleaner

A product of  AIR INNOVATIONS®

HEPAir® is a registered trademark of Air Innovation. US Patent 7,802,443  
7000 Performance Drive, North Syracuse, NY 13212  
315-452-7400

# Effect of HEPAir X100 on IAQ



## Applications

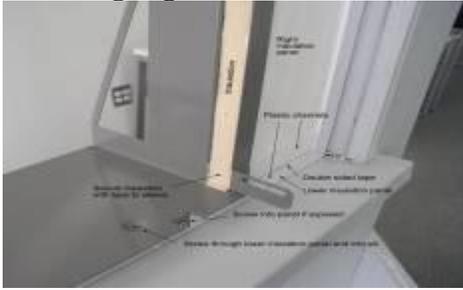
- Healthcare
  - ✓ Offices and bedrooms
  - ✓ Medical facilities (waiting and exam rooms)
- Cleanrooms
  - ✓ Parts cleaning and storage
  - ✓ Laboratories
  - ✓ Compound mixing
  - ✓ Testing and instrumentation
  - ✓ Gown-up rooms
- In-Plant Offices
  - ✓ Protects occupants from airborne particulate contaminants in a factory
  - ✓ Protects instruments or sensitive equipment from factory dust
- Enclosures
  - ✓ Enclosures around sensitive equipment
  - ✓ Sterile medical device manufacturing
  - ✓ Sterile plastic injection molding machine enclosures
  - ✓ Animal research cages

## Features and Benefits

Easy to install packaged unit for window or thru-wall mounting  
Maintains temperature control automatically  
Dehumidifies and ventilates with fresh outside air  
Exhausts room air to dilute the buildup of gaseous compounds such as VOC's  
Made in the USA, UL and CSA approved, 24/7 service support  
Proven effective at removing airborne particulates and reducing VOC's  
Four discharge nozzles to direct airflow throughout the room  
Two speed fan and occupied/unoccupied switch  
One year warranty

# HEPAir® X100 INSTALLATION, OPERATION & MAINTENANCE

Some highlights:



*HEPAir X100 includes a specially designed sleeve to facilitate installation*



*Front view inside room*



*Side view inside room*



*Side view outside room*



*Digital electronic controls automatically control the operation of HEPAir X100 components*



*HEPAir X100 units are designed for minimal maintenance*



*Easy access to the HEPA filter*

# HEPAir® X100

An Air Innovations product

## Specifications Ventilating Air Cleaner

<b>Electric:</b>				
	Min. circuit size 115 volt, 60 cycles, 15 amps			
<b>Power (amps):</b> (3-pronged outlet required)				
	Cooling 6.8			
	Heating 9.6			
<b>Operating Parameters:</b> at 80°F/67°F indoor (DB/WB) at 95°F/75°F outdoor (DB/WB)				
	Cooling (high speed) 6,230 BTU/hour total, 4,000 BTU/hour sensible			
	Cooling (low speed) 4,220 BTU/hour total, 3,190 BTU/hour sensible			
	Heating 3,413 BTU/hour (1kW)			
<b>Model: HEPAir X100</b>		<b>P/N 99H0095-00</b>		
<b>Filter Efficiency</b>		<b>99.97% HEPA</b>		
<b>Airflow (CFM):</b>				
		<b>High</b>	<b>Low</b>	
	Evaporator	171	119	
	Outside supply air	32	30	
	Room exhaust air	25	28	
	Condenser	325	325	
<b>Typical Operating Conditions</b>				
	Refrigerant Suction	65°F	151/psig	
	Refrigerant Discharge	124°F	425/psig	
	Refrigerant Liquid	111°F		
	Condenser air (in)	96°F		
	Condenser air (out)	117°F		
<b>Dimensions (inches)</b>				
		<b>Wide</b>	<b>High</b>	<b>Deep</b>
	Inside window	22	22	12
	Outside window	19½	13¾	17
	Overall	22	22	29
	Min. window opening with sleeve	21½	13¾	
<b>Cabinet Construction</b>				
	Commercial grade components for durability and longevity			
	Exterior surfaces powder-coated aluminum for weather resistance			
	Air louvers (4) adjust airflow and direction			
<b>Filters</b>				
	Prefilter (2) - capture large particles before they enter re-circulating system - removable; vacuum, rinse off and replace as needed			
	Outside screen - capture large particles before they enter room - removable; vacuum, rinse off and replace as needed			
	HEPA - 99.97% min. efficiency at removing airborne particles 0.3 micron size P/N 74H0048-00			
	Call manufacturer for replacement.			
	(Loading of the filters is dependent on outside air and room conditions.)			
<b>Controls</b>				
	Programmable touch pad			
	Digital LCD display with blue illumination			
<b>Certifications</b>				
	ETL certified to Underwriters' laboratories (No. 484) and Canadian (C22.2 #117) performance and safety standards			
<b>Weight (pounds)</b>				
	118 (two-person lift recommended)			
<b>Refrigerant</b>				
	R410A			
<b>Sound</b>				
	Similar to "white noise" machines			
<b>Warranty</b>				
	1 year materials and workmanship			
	90 days labor			
	(Filters are consumables and exempt from this warranty.)			

All performance data has been evaluated at normal room conditions of 70°F. Operating the device at other temperatures may impact performance. *Manufacturer reserves the right to change specifications without prior notice.*

**HEPAir® is a registered trademark of Air Innovations, U.S. Patent 7,802,443**  
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