



7000 Performance Drive
North Syracuse, NY 13212
800-825-3268
315-452-7400
info@airinnovations.com

HEPAiRx Awarded \$75,000 Grants for Growth

Syracuse, NY (September 30, 2010) Air Innovations was recognized by CenterState CEO, the region's premier economic development organization, for its cutting-edge research on the HEPAiRx ventilating air purifier. Air Innovations' engagement "in research partnerships with the area's top universities advance real-world applications, help propel innovative applied research projects to the marketplace, and solidify Upstate New York as a leader in the high-tech economy," said Robert M. Simpson, President and CEO of CenterState.



Mike Wetzel, AI President and CEO, shown here (fourth from left) at Grants for Growth awards ceremony at the Technology Garden

CenterState awarded AI a \$75,000 Grants for Growth for its work on HEPAiRx with Clarkson University. The matching grant monies will be used to test additional homes to achieve a higher statistical power for our research, test the medical effectiveness of the new design, and discount the placebo effect of white noise on these health effects. HEPAiRx is being installed in the bedrooms of children who have been diagnosed with moderate asthma.

HEPAiRx Continues Second Year of Clinical Trials

Syracuse, NY (August 23, 2010) A second year of clinical trials is showing the HEPAiRx ventilating room air purifier to be extremely effective at reducing particle counts and gas concentrations in the bedrooms of children with asthma, allowing them to have a restful night's sleep. Consequently, the children are able to face daytime activities with far fewer asthmatic incidents.



Over 300 million people worldwide are affected by asthma. Allergens, other airborne particulate matter, volatile organic compounds, poorly ventilated and over-insulated buildings are often associated with the increase and prevalence of asthma. The scientific community widely believes that ventilation and indoor air cleaning may be beneficial in reducing asthma symptoms (www.epa.gov/iaq).

"The HEPAiRx studies represent the first time Air Innovations has collaborated with universities and medical facilities to bring a product direct to the consumer market," said Chairman Larry Wetzel, P.E., who originally conceived the product. It also involved working with many local, state and federal agencies to secure grants and underwriting. The studies have been conducted in partnership with Clarkson University.

Participants in the most recent study were given the option of keeping their units or receiving a cash payment for participation. Most reported improved quality of life for their children and therefore their families. Ninety-five percent of the users opted to keep the HEPAiRx afterwards, underscoring strong consumer acceptance for the product. Further studies will be conducted this winter to determine the medical intervention cost savings of the HEPAiRx.

HEPAiRx combines a fresh outside air ventilator with energy recovery, an air purifier using high-efficiency particulate air filtration (HEPA), and a heating and cooling unit into one compact packaged system. The system takes over complete environmental control of a room, managing temperature and high humidity as well as reducing airborne contaminants from such sources as cooking gases, household cleaning products and pet dander. What is unique about the unit is not the technology itself but rather the combination and orientation of those technologies and components. No chemicals are used and no ozone is created in the process, unlike other competitive products currently on the market.

The machine fits into a standard, double-hung window without requiring major ductwork or window adaptations. In addition, it runs quietly, as the compressor and condenser are located on the outside of the window. HEPAiRx is patented in the USA and has been cleared for international registration in 33 European countries and Canada.

Air Innovations Partnering with Clarkson University on Indoor Air/Asthma Research



HEPAiRx will be mounted in the window frame of participants' bedrooms

Syracuse, NY (January 6, 2010)—Air Innovations and Clarkson University's Center for Air Resources Engineering and Science are conducting a study to evaluate the effectiveness of AI's HEPAiRx ventilating room air purifier in improving the quality of air in the room where children spend most of their time, the bedroom. The study will focus on children's rest time and measure the corresponding improvement in sleep and general respiratory well being. Preliminary work has shown that having the air quality of the child's bedroom cleaned and conditioned leads helps asthmatic children sleep better.

The test will last for 16 weeks during which the system will be running for 14 weeks. Every sixth day before going to bed and upon awakening in the morning, the child will breathe into a sampling system that condenses his/her exhaled breath. Clarkson will collect and analyze the condensate to test if the clean air has produced less inflammation in the child's lungs. There will be questionnaires and activity diaries to complete. At the end of the study, participants will be given the option to keep the HEPAiRx or receive a stipend.

Air Innovations Awarded Grant to Commercialize HEPAiRx® Ventilating Room Air Purifier

Syracuse, NY (October 10, 2009)—Air Innovations has been the recipient of a grant from the Syracuse Center of Excellence in Environmental and Energy Innovations (CoE) to continue product development and research on its ventilating room air purifier, HEPAiRx®. The \$150,000 Technology Application & Demonstration (TAD) award will be used to refine the product's design, demonstrate the new design's effectiveness at improving indoor air quality, and evaluate how it reduces the symptoms of asthma as well as the health and productivity costs associated with that disease.



"Asthma affects 22 million Americans, including 6.2 million children, and the annual direct and indirect cost of asthma is estimated at \$16.1 billion," explained Air Innovations Chairman Larry Wetzel, P.E. Air Innovations will collaborate on the TAD grant with Clarkson University, which will optimize performance parameters of the re-designed unit and test the product in the homes of asthmatic children. An economic and commercial viability study will later be conducted by the University at Buffalo and Applied Healthcare Resource Management.

HEPAiRx is a unique combination of a ventilator with energy recovery, an air purifier and a heating and cooling unit. The system is designed to take complete environmental control of a room, such as a bedroom, where people spend much of their time, and reduce airborne particles and gaseous contaminants. By doing so, the bedroom can be isolated from the rest of the house, where contaminants are being generated and distributed, to allow the occupant relief at night.

According to Wetzel, Air Innovations will produce the unit in its factory in North Syracuse and seek international distribution of the product.