

Healthy Buildings Impact Your Triple Bottom Line

Today's school administrators and facilities managers are constantly being challenged to do more with less. In order to meet the demand to increase operational efficiencies and reduce costs, schools are looking for solutions that offer benefits from controlling surging energy costs to boosting student and teacher attendance and performance.



Sustainable solutions for healthier buildings

Founded in 1994 after a decade of intensive research and development, Steril-Aire launched an industry with its multi-patented devices that are systems-engineered specifically for the cold, moving air of an HVAC system.

Today, Steril-Aire remains the unrivaled leader in IAQ improvement in residential and commercial heating, ventilating, air conditioning and refrigeration systems. All products are manufactured in an ISO 9001:2008 facility.

From reducing energy consumption and controlling costs, to optimizing both human and mechanical productivity, UVC solutions from Steril-Aire pay measurable dividends to your bottom line.

Make the Grade with Steril-Aire® High Output Germicidal UVC Solutions for Educational Facilities



To find a Steril-Aire distributor near you, visit www.steril-aire.com or call 800-2STERIL



Healthy Buildings.
Healthy Bottom Line.™



Steril-Aire's UVC for HVAC® offers a rapid return on investment in multiple areas:

- Up to 15% reduction in energy costs
- Improved maintenance and custodial productivity
- Improved indoor air quality
- Enhanced HVAC operational efficiency

To meet these demands, many schools are looking for ways to control energy and operational costs, creating a healthy indoor environment for student and staff while reducing the impact to the environment. And more institutions are turning to Steril-Aire to accomplish these goals.

Installed in new or existing heating, ventilating and air conditioning (HVAC) systems, Steril-Aire's engineered UVC keeps cooling coils and drain pans clean, reducing energy consumption and costly cleaning programs.

Numerous studies have demonstrated that the HVAC system is a viable reservoir of pathogenic and opportunistic bacteria and mold that often contribute to building-related diseases* and poor indoor air quality. Using the proven power of germicidal UVC energy as an effective inactivation method for microorganisms, Steril-Aire makes a vital contribution to indoor air quality, improving attendance and academic performance*.

Steril-Aire UVC significantly reduces energy and operational costs as well as creating a healthy indoor environment for students and staff. In addition to being environmentally friendly, Steril-Aire UVC offers an average payback in less than 24 months.



www.steril-aire.com
800-2Steril
email: sales@steril-aire.com
LIT#1003 ©2013 Steril-Aire

Steril-Aire, Inc.
2840 N. Lima St.
Burbank, California 91504
818-565-1128



Energy and Your HVAC

HVAC systems account for 40-60% of energy used in buildings. And, the U.S. Department of Energy states that fouled coils can increase your HVAC operating costs by up to 30%. Steril-Aire UVC improves heat transfer efficiency and airflow through the system for peak performance, resulting in energy savings up to 15% and maintaining equipment at factory-designed efficiency.



By continuously cleaning the HVAC coils and drain pan, Steril-Aire UVC eliminates biofilm much more effectively than conventional cleaning methods. UVC provides a continuous cost benefit, avoiding costly and time-consuming coil cleaning manual labor and chemical use, providing relief from your tight operation budgets and limited custodial resources.

IAQ and Your HVAC

Indoor air quality (IAQ) is critical to improving academic performance with teacher and student well-being. With 14 million missed school days each year, a healthy school building is essential.

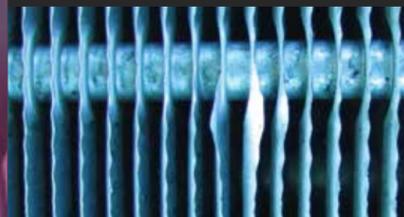


Biofilms form when mold and bacteria adhere to surfaces in moist environments by emitting a slimy, glue-like substance. Biofilms can be a thin layer or several inches thick, depending on environmental conditions — just like the ones inside your HVAC system.

Before Steril-Aire UVC



After Steril-Aire UVC



Air pollution resulting in respiratory problems has long been implicated in school absenteeism, hospitalization, and reduced quality of life. With asthma cited as the leading cause of school absenteeism, there is increased attention and focus on indoor air quality. The U.S. Environmental Protection Agency (EPA), the World Health Organization (WHO) and scientific research have concluded that a school's physical environment and classroom IAQ contributes to creating a favorable learning environment and improved academic achievement.

Numerous studies have demonstrated that the HVAC system is a viable reservoir of pathogenic and opportunistic bacteria and mold. Installed in existing or new HVAC systems, Steril-Aire's patented germicidal UVC keeps coils and drain pans clean, eliminating this source that can contribute to respiratory illness, asthma and allergies. Clean coils also improve airflow and reduce energy consumption, providing better temperature control - conditions ideal for improving attention span, learning and productivity.

Steril-Aire's educational customers have realized improved indoor air quality and safe, supportive learning environments. By improving student average daily attendance rate, a common determiner of school district funding, UVC solutions from Steril-Aire can also have a significant fiscal impact on the school district bottom line.

***References**
 Levetin E. Fungi. In: Burge H, editor. *Bioaerosols*. Boca Raton, Fla: Lewis Publishers, CRC Press; 1995.

www.epa.gov/iaq/schools/student_performance/

www.healthyschools.org



HVAC coil Petri dish samples demonstrate high concentrations of microorganisms.

After exposure to a UVC Emitter these microbes are eliminated.

DE Series UVC Emitters

- For built-up AHUs in all commercial & industrial applications
- Double-ended fixtures (18, 24, 30, 36, 42, 62 inches) are mounted internally and fitted end-to-end for any size coil
- Available in 16, 22, 28, 34, 40, 60 inch Emitter lengths
- Universal power supplies 120-277 V, 50/60 Hz



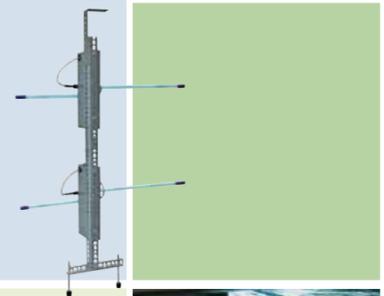
SE Series UVC Emitters

- For interior installed fan coils, heat pumps, unit ventilator, packaged AHU's, terminal units and ductwork
- Available in 12, 16, 20, 24, 30, 36, 42 inch Emitter lengths
- Universal power supply 120-277 V, 50/60 Hz



Fast Install Tower (FIT)

- Factory pre-wired for ease of ordering and quick, easy installation
- Available for SE Series UVC Emitters 12" to 42"



UVC Kit For Air Handlers

- For indoor air handlers with coils up to 122 inches with dual access, fan coils, packaged systems, heat pumps and unit ventilator systems. Pre-wired NEMA enclosures for outdoor use available for 61 inch Emitter
- Available in 12, 16, 20, 24, 30, 36, 42, 61 inch Emitter lengths
- Universal power supply 120-277 V, 50/60 Hz



UVC Kit for Unitary Air Conditioners

- For air conditioners below 5 tons, splits, mini-splits, fan coils, packaged terminal units
- Available in 7.5, 10, 16, 20, 24 inch Emitter lengths
- Power supply 120 V and 208/230 V, both 50/60 Hz



Steril-Zone Room Air Purifier

- For classrooms, administrative offices, school infirmaries and nurse's offices
- 3-Stage purification system: UVC, high-efficiency pleated filter, activated carbon
- Safe and ozone-free
- Compact and powerful
- 120 V or 230 V, 50/60 Hz

