




High Output Germicidal UVC Solutions.

Science based &  
technology backed  
solutions that create  
a better and safer  
environment to live,  
work and breathe.



Our science is groundbreaking. But our goal is simple: Continue to produce innovative, technological solutions, backed by science, that enhance our customer's image, save money and create a better environment to live, work and breathe.

Steril-Aire, ISO Certified in both 9001:2015 & 14001:2015, launched UVC for HVAC industry in 1994 and remains the leader today. Steril-Aire is the unrivaled leader in the development of high performance UVC solutions for air and surface decontamination.

In hospitals. In laboratories. In schools and government facilities and offices and homes. Steril-Aire devices are also used to enhance food safety through mold and bacteria control, extending product shelf life and production yields. From reducing energy consumption and controlling costs, to optimizing human and mechanical productivity, UVC solutions from Steril-Aire pay measurable dividends to your financial health.

- **Saves up to 15% in energy costs**
- **Improves Indoor Air Quality (IAQ)**
- **Optimizes HVAC performance**
- **Extends food shelf life and quality**
- **Reduces water use**
- **Cuts maintenance costs**

Steril-Aire's systems-engineered UVC Emitters are the perfect solution for retrofit or new HVAC systems. They produce no ozone or secondary contaminants. In addition to being environmentally friendly, they offer an average payback within 24 months (or less) of installation.



# Biofilms: costly buildup that shortens the life of your HVAC equipment.

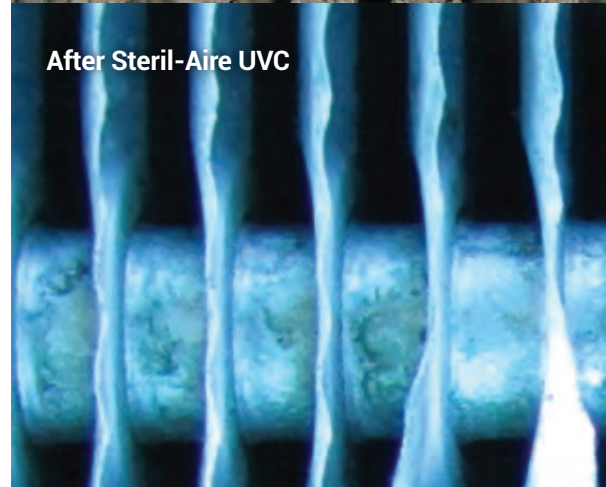
Biofilms form when mold and bacteria adhere to surfaces in moist environments by excreting a slimy, glue-like substance. Biofilms can be a thin layer or inches thick, depending on environmental conditions... just like the ones in your HVAC.

Dust adheres to biofilm surfaces resulting in costly issues:

- HVAC units are forced to work harder, shortening the lifespan of your equipment and increasing your energy costs
- Indoor air quality (IAQ) is reduced as mold, bacteria and other biocontaminants spread, impacting the health and productivity of building workers or inhabitants
- Messy, ineffective cleaning solutions force equipment downtime and the use of hazardous chemicals in an attempt to remove biofilms

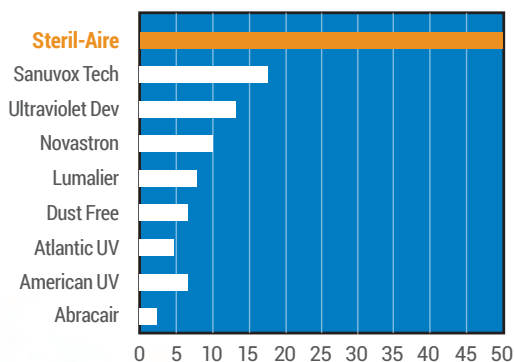


Before Steril-Aire UVC



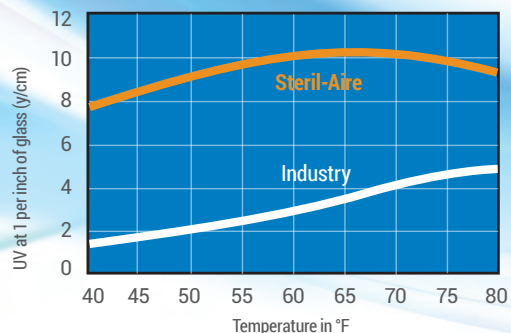
After Steril-Aire UVC

U.S. Homeland Security Research:  
Biological Interaction Study



U.S. Homeland Security/EPA tests confirm that on average, Steril-Aire Emitters are 6x more effective than all tested competitive UV on a Kill/Watt basis

Output vs. Temperature



Independent tests show Steril-Aire delivers up to 6x the output of other ultraviolet devices under HVAC conditions (50° F at 400fpm of air velocity)

According to a study conducted by Florida State University, biofilms cost the US billions of dollars every year in energy losses, equipment damage, product contamination and medical infections.

## Not all UVC is created equal.

Ultraviolet-C (UVC) light is a powerful tool for arresting the spread of unhealthy contaminants. But careful examination shows that not all systems are equally effective when it comes to the real-life needs of the HVAC environment.

In tests conducted by the U.S. Environmental Protection Agency's National Homeland Security Research Center Technology, Testing and Evaluation Program, the Steril-Aire germicidal UVC configuration was, on average, six times more effective on a Kill/Watt basis.

**When comparing UVC systems, be sure to ask about:**

**Effectiveness.** Steril-Aire Solutions are developed using EVIDENCE BASED DESIGN. A proper solution requires enough intensity to stay ahead of microbial growth rates. Not only has Steril-Aire defined the proper energy field, we created the Smart Tool™ which allows you to design your own solution while ensuring successful results.

# Significant benefits for a wide array of industries.



**Commercial & Industrial Buildings.** Steril-Aire can support your financial goals by significantly reducing your HVAC operating costs, decreasing water use and improving indoor air quality. Owners can expect increased property values and reduced liability. Property managers will see higher occupant satisfaction and productivity as well as marketing differentiation.



**Health Care.** Steril-Aire's germicidal UVC can help protect your building, your patients, and staff while reducing energy consumption and maintenance costs. Our health care customers have realized reduced hospital acquired infections, cross-contamination, reduced hospital stays, as well as reduced liability. Steril-Aire also takes cleanrooms to a whole new level of germicidal effectiveness.



**Food & Food Processing.** Steril-Aire UVC enhances food safety through mold bacteria and virus control, extending product shelf life and improving quality and production yields. Germicidal UVC helps to avoid recalls and mitigation, reducing sales loss, brand damage and liability.



**Schools & Institutions.** With 14 million missed school days each year, a healthy school building is essential. Good indoor air quality means healthier students, teachers, professors and administrators. Steril-Aire's UVC for HVAC protects your building, your students and staff while reducing energy consumption and maintenance costs.



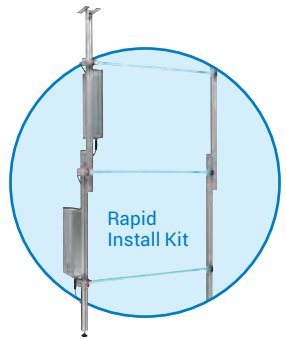
**Commercial Cannabis.** Whether for medical use or leisure, legalization of cannabis is spreading globally and the commercial industry around it is exploding. Along with this is the introduction of new safeguards on the growing, harvesting, processing, & sale of the product. Much like the benefits seen in food safety, Steril-Aire solutions address these safeguards assisting professional cannabis organizations looking to keep dangerous molds and mycotoxins from infecting and destroying yields.

# Commercial Products

## Enhanced Single Ended Series

### Rapid Install Kit® (RIK)

- Factory pre-wired for ease of ordering and quick, easy installation
- Available for ESE Series UVC Emitters 12" to 61"



### Enhanced Single Ended (ESE)

- 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, 50 & 61 inch Emitter lengths
- Universal power supply 120-277 V, 50/60 Hz



### Enhanced UVC Kit (EUVC)

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



## Double Ended Series

### 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



# Light Commercial & Residential Products

## Single Ended Series

### Single Ended NEMA4 (SEN) Series UVC Emitters

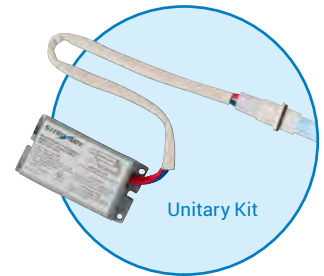
- For exterior units including rooftop units, AHU's, heat pumps, fan coils, packaged terminal units and ducts
- NEMA 4X
- Available in 12, 16, 20, 24, 30, 36 and 42 inch Emitter lengths
- Universal power supply 120-277 V, 50/60 Hz





## Unitary Kit

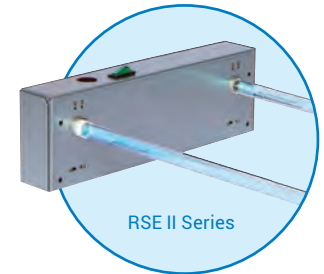
- For air conditioners below 5 tons, splits, mini-splits, fan coils, packaged terminal units
- Available in 7.5, 10, 16, 20, 24 inch Emitter lengths
- Power supply in 120 or 230



## Residential Single Ended Series

### Residential Single-Ended I (RSE I)

- For interior residential and light commercial applications
- Available in 16, 20, 24 inch Emitter lengths
- Universal power supply 120-277 V, 50/60Hz



### Residential Single-Ended II (RSE II)

- For residential and light commercial applications
- Two Emitters per fixture designated for "A", "N" and "W" style coils
- Available in 16, 20, 24 inch Emitter lengths
- Universal power supply 120-277 V, 50/60Hz



## Specialty Products

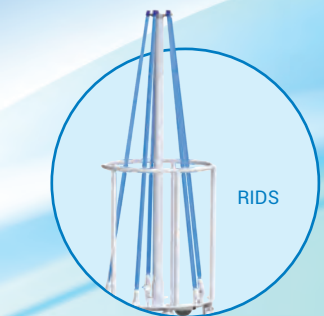
### Steril-Zone

- In-room Air Purifier utilizing a 3 stage cleaning process
- Clean the air in rooms up to 1,000 sq. ft.
- Ozone free
- Industrial Grade



### Steril-Wand

- For surface decontamination in commercial and residential applications
- Portable hand-held device
- Available in 24 inch Emitter length
- 120 V and 230 V, 50/60 Hz

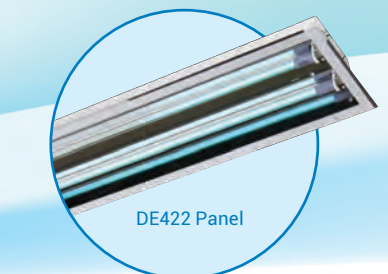


### Remedial In-room Decontamination System (RIDS)

- Self-contained, mobile decontamination unit
- Decontaminate air and surfaces
- Mobile Room Sanitizer

### DE422 Panel

- Provides rapid, effective on-site biological decontamination and sterilization for surgical suites and patient rooms
- Mounts flush with ceiling or into a wall
- Energy efficient – uses approx the same energy as a 200-watt light bulb



# Accessories

## UVC Watch Dog

- Off indicator for Emitter monitoring and control
- Interfaces to BMS and visual LED status notification



## UVC Controller II

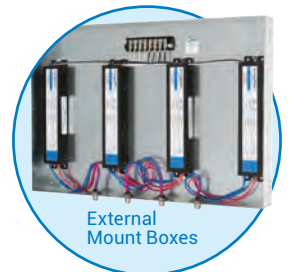
- Display Panel for Emitter monitoring and control
- Provides visual backlit status notification
- Interfaces to BMS
- Monitors Emitter Usage, Faults & On/Off
- In a NEMA 4 Housing



# Mounting

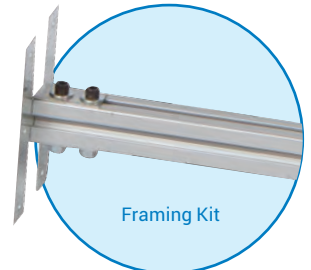
## External Mount Boxes

- Build your own ESE Series solution with pre-wired External Mount Boxes for 1, 2, 3, or 4 power supplies
- Boxes are installed with M12 female connectors to accept Steril-Aire Connection Cables



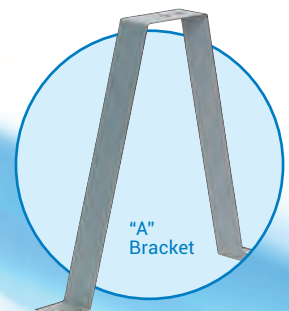
## Framing (Horizontal or Vertical) Kit

- Designed for internally mounting ESE & DE Series solutions
- Multiple expanding sizes for different size plenums
- Adjustable to allow assembly to be positioned in front of coil



## "A" Bracket

- Designed to hold Steril-Aire Framing material to fasten and position ESE & DE Series Emitters directly in front of the coil
- Sturdy, adjustable bracket offers installation flexibility



## Quick Slip Fitting/Spring Clip

- A pair of accessories designed to hold Single-Ended Emitters in place with some flexibility





creating healthier environments

European Distribution

E-CO

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Steril-Aire has been awarded numerous patents and has earned a variety of awards for innovation and for its proven ability to improve HVAC system cleanliness and efficiency, building comfort and energy conservation, while solving a variety of operational problems. We invite you to learn how our broad range of products can help you. All Steril-Aire products are manufactured in an ISO 9001:2015 and ISO 14001:2015 facility in Burbank, CA, USA.



Registered to  
ISO 9001:2015



Registered to  
ISO 14001:2015



Complies with current  
U.S. and Canadian  
safety standards for  
use in HVAC equipment