

Ultravation®

UVMatrix™

INDOOR AIR QUALITY (IAQ) IMPROVEMENT PRODUCTS
ENERGY USE OPTIMIZATION
LARGE AIR HANDLER APPLICATIONS

COMMERCIAL
INSTITUTIONAL
MEDICAL
MANUFACTURING

Ultravation®

Better Air | Better Water | Better Living™



Bio-growth in HVAC systems is inevitable

UV-C light is the cost effective and sustainable solution

Air conditioning has brought great benefits to people in terms of productivity in the workplace and making our lives far more comfortable at home as well. It has become ubiquitous and fully integrated into everyday life.

As air conditioning came into use, the need to maintain the equipment became necessary to keep the air flowing smoothly and drain pans from clogging.

UV is effective, energy saving and the only method that continually keeps bio-growth from taking hold in the constantly wet coils, drain pans and other moist areas which are ideal breeding ground for microbes.

Ultravation® also manufactures both HVAC airstream disinfection and convection-driven upper room products that have been suggested by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). They emit pure 254NM UV-C (UVGI) with no production of ozone.



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Ultravation is an
American Manufacturer
located in Brandon,
Vermont.

UV light is nature's way of controlling bio-growth

Natural UV light controls microbial populations outdoors. UVMatrix™ brings UV inside.

It has been shown that even a thin bio-film measuring just a few thousandths of an inch on a cooling coil can reduce HVAC efficiency by 30% to 50% – as well as cause HVAC odors. Adding germicidal UV with intensity far beyond that found outdoors is well worth consideration for maintaining the efficiency and cleanliness of an HVAC system.

Non-chemical sustainability

UV light does not pose a threat to the environment and consumables are recyclable.

UV-C short wave ultraviolet light generates no ozone

Ultraviolet UV lamps are focused at the most lethal wave length of UV light – the UV-C range – and specifically centered on 254nm. It is possible for UV to generate ozone, it does so at the lower frequency of 185nm which is not emitted by Ultravation UV lamps for disinfection.

Ultravation UV is 40% more intense with two-year (18,000 hr) UV lamp life

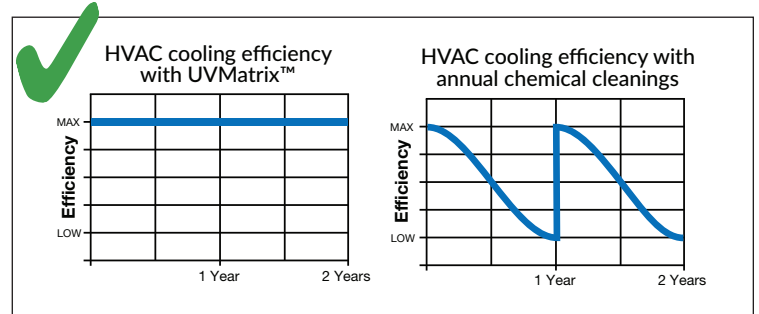
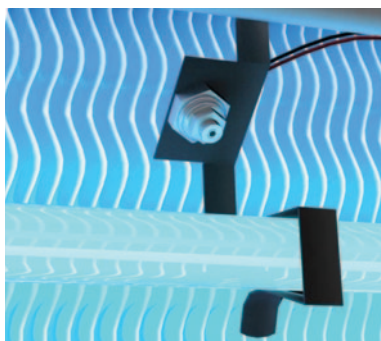
40% additional UV intensity over typical UV installations by **Ultravation's T3 UV Lamp technology**. The UV lamps are encased in water-tight transparent quartz sleeves that insulate the lamp, optimizing operating temperature. UV intensity is raised and lamp life is doubled *without additional power consumption*.

Real-time UV monitoring

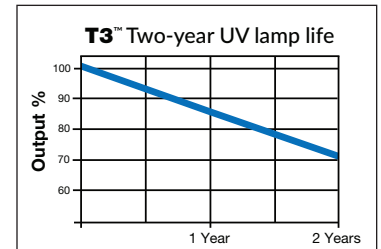
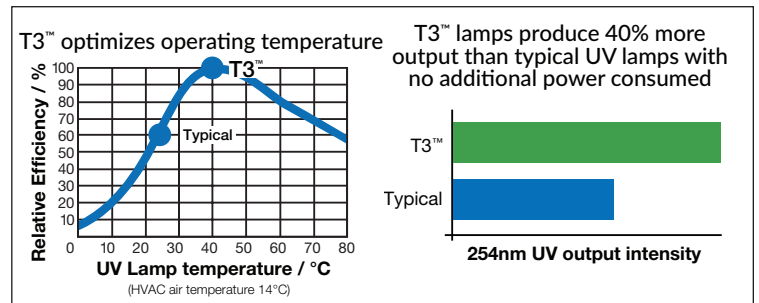
A UV-C sensor system that measures UV-C intensity of the operating lamps is available to provide assurance of needed UV-C dose at all times.



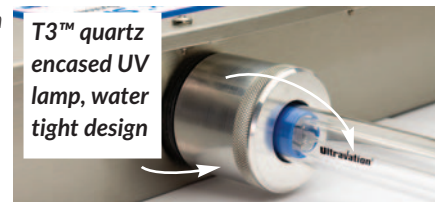
The controller mounts outside of the HVAC system. The monitor can also be integrated with building automation.



Continually clean and efficient: Without UV, manual / chemical cleanings are needed to restore efficiency, but performance begins to degrade almost immediately. Peak operation is limited. UV disinfection maintains peak efficiency for substantial energy conservation.



T3™ design encases UV lamps in protective quartz glass sleeves that insulate the lamp from the cold HVAC airstream, allowing them to operate at optimum temperature.



Warranty

Ultravation® UVMatrix™ commercial application products are covered by Ultravation's Lifetime Warranty*

*when used with genuine Ultravation® UV lamps

Examples of microbials de-activated by UV-C light

Bacteria	Measles	Cryptococcus	Microbacterium aviumintra	Moraxella Acinetobacter
Viruses	Tuberculosis	Stachybotrys atra	Streptococcus pyogenes	Haemophilus influenzae
Legionella pneumophila	Chicken Pox	Neoformans	Bacillus anthraci	Pseudomonas aeruginosa
Molds	SARS Coronavirus	Mucor	Corynebacterium diphtheria	
Fungi	Humidifier Fever	Aspergillus niger	Serratia marcescens	
Ragweed	Microplasma pneumoniae	Adenovirus	Neisseria meningitidis	
Dust mites	Penicillium expensum	Coxsackievirus		
		Mycobacterium kansasii		

Ultravation®

UVMatrix™ SI

HVAC coil and interior surface disinfection



The UVMatrix SI-Series is an innovative UV equipment design that stresses germicidal effectiveness as well as HVAC energy efficiency. It is also engineered to facilitate installation, maintenance, longevity and a low cost of ownership.

- Built-in expansion system assures excellent fit and UV exposure
- Stainless steel construction available
- Complete system — no extra framework or hardware to purchase
- Rapid return on investment
- Reduces wear and tear, extends HVAC lifespan
- Complete assessment and sizing service provided



Ultravation SI Series is protected under U.S. Patent #7419642B2



No ozone

Conforms to UL 2998 (3rd Edition, July 10, 2020) clause 6.2, emittance of ozone not exceeding a concentration of 0.005 ppm.



UVMatrix™ CP system monitoring with elapsed time display and available real-time UV-C intensity display with individual lamp performance sensors and remote alarm triggers.

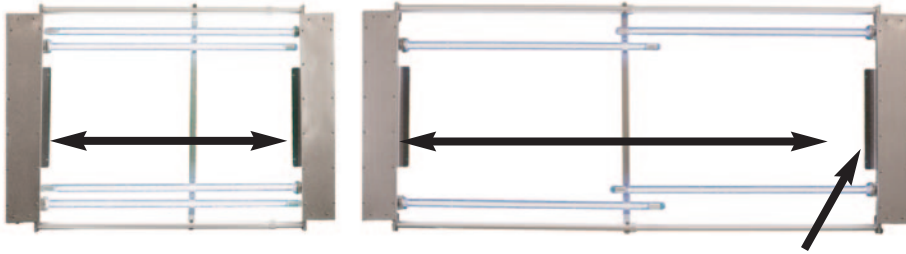
Factory techs available for installation:

Ultravation engineers are available to assist with specifying product configuration and sizing, as well as provide on site installation.

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Expands to fit any HVAC system, new or retrofit

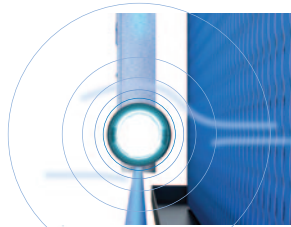
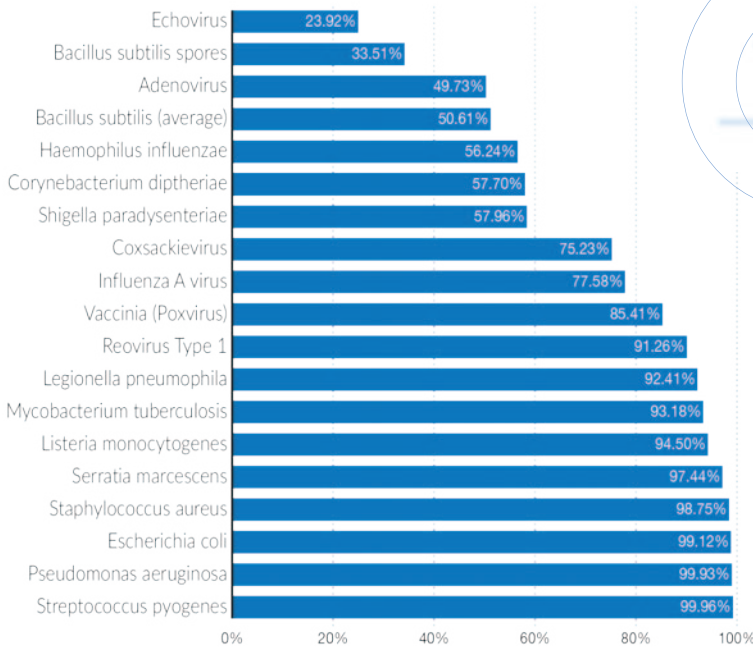


The SI-Series extends for perfect fit – sliding adjustability widens for exact fit! Ensures optimized UV coverage for all air handlers. Ships disassembled in a compact carton with 15 minute assembly procedure.

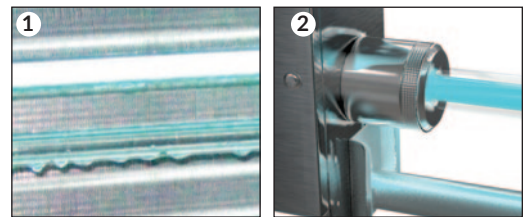
The SI-Series is self-contained and does not need additional framework or hardware.

360° UV-C dispersion maximizes HVAC surface coverage plus airstream disinfection

Results of airstream disinfection from a UVMatrix™ SI installation



Low turbulence T3™ UV lamp design requires no reflective panels on the lamps. This enables **360° UV dispersion** for complete coil coverage, increasing adjacent surface sterilization, and maximizing airstream disinfection exposure time.



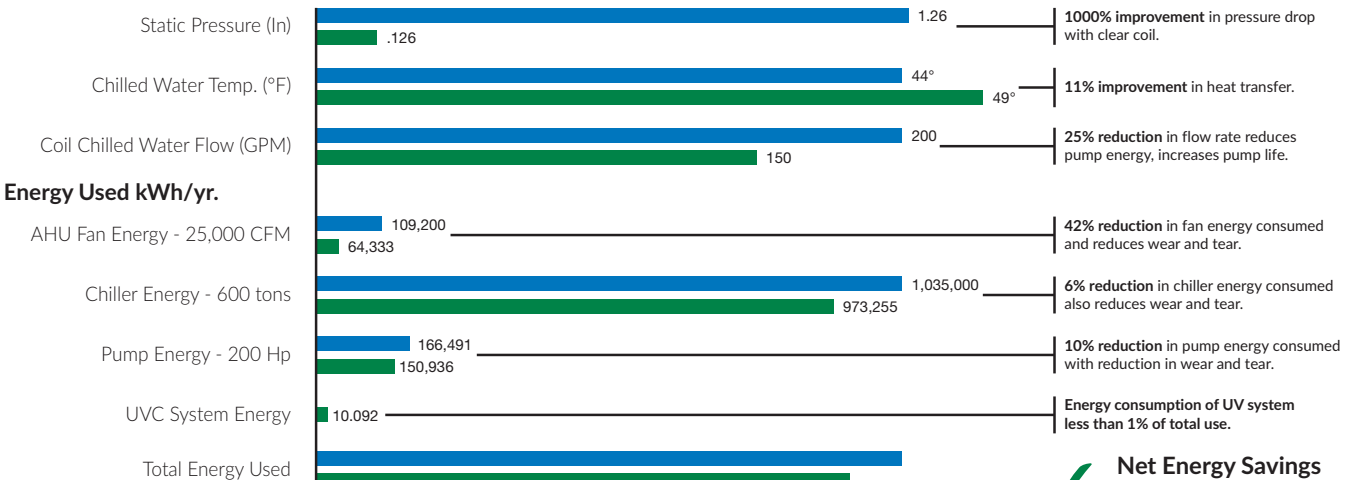
(1) Condensate accumulates on UV lamps and frame.
 (2) T3™ UV lamps are temperature optimized and installed with water-tight connections for tolerance of wet HVAC environments.



UVMatrix™ SI-Series Energy Reduction Results

Measured benefits from adding UV to a clogged HVAC system – from an independent study

System Performance Factors



Net Energy Savings
112,075 kWh or \$13,090
 Electric rate @ \$0.1168 kWh

An independent study conducted by and copyright © B. Alan Whitson Company

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UVMatrix™ AS-R airstream disinfection for healthier working environments

The UVMatrix™ AS-R Series is a flexible, modular UV system design that disinfects the air circulating through an HVAC system. High levels of UV-C energy are generated by an array of UV lamps installed in HVAC ductwork to maximize the exposure time of pathogens. The lamps are powered by a remote power/controller that installs outside of the UV exposure area.

Features include:

- Up to 4 UV lamps may be connected per auto-sensing 120-277 VAC Control Center.
- Independent monitoring for each lamp in the system for proper operation and lamp replacement (visual and audible) with individual resets.
- Dry contacts for remote notifications
- Ultravation T3™ high intensity/high energy efficiency UV lamps, available in four lamp lengths.
- Two 24 VAC ports for connection of additional IAQ devices.
- Small Control Center footprint

No ozone

Conforms to UL 2998 (3rd Edition, July 10, 2020) clause 6.2, emittance of ozone not exceeding a concentration of 0.005 ppm.

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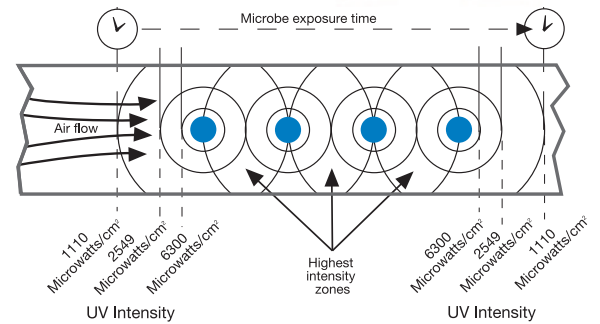
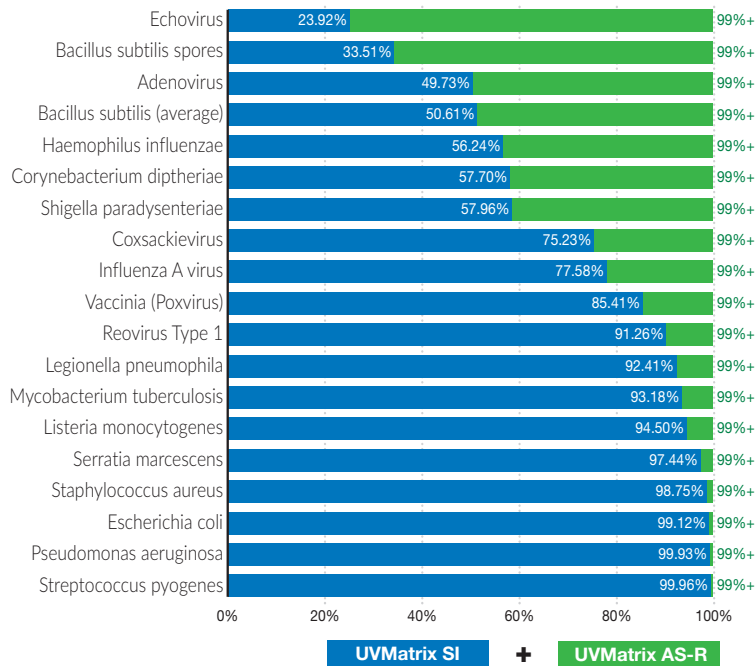


T3™ temperature optimized, high intensity UV-C lamps

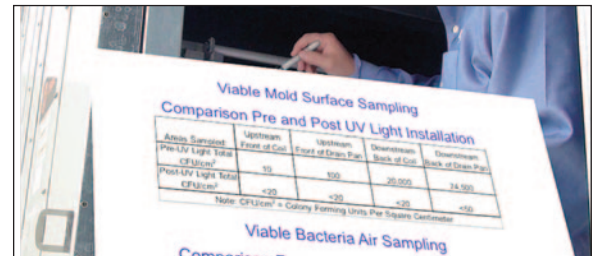
UVMatrix™ AS-R UV systems are efficient to install, operate, monitor and maintain

Systems can be custom configured for nearly any airstream disinfection task. UVMatrix AS-R is often used in tandem with UVMatrix SI (page 4) as an efficient, unified system that provides coil and surface irradiation (SI-Series) while creating a compound airstream disinfection system for increased exposure time.

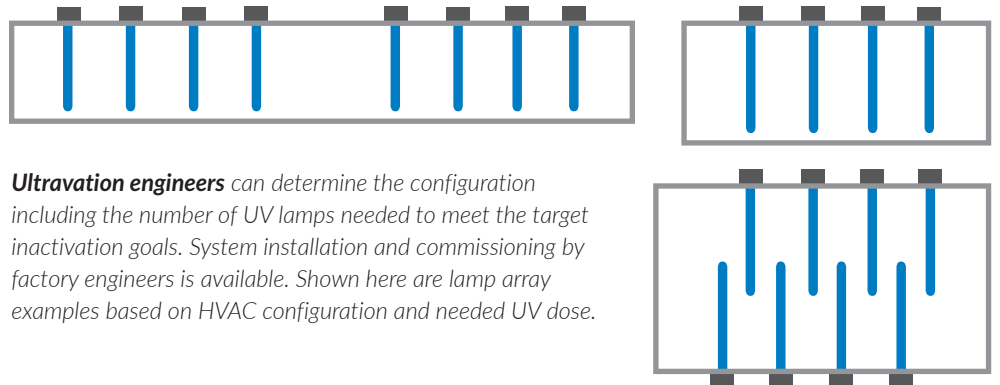
The chart below demonstrates the benefits of a combined SI and AS-R UV system



Getting the right UV dose: Ultraviolet light disinfection effectiveness is based on UV intensity and duration of exposure. UVMatrix™ AS-R installs in-line inside ductwork to obtain necessary contact or dwell time. Pre and post testing can be performed to confirm performance. Realtime UV intensity monitoring is available.



Factory technicians are available for HVAC analysis and UV system installation



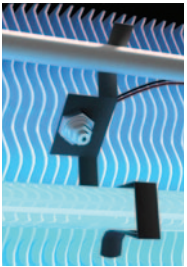
UltraVation engineers can determine the configuration including the number of UV lamps needed to meet the target inactivation goals. System installation and commissioning by factory engineers is available. Shown here are lamp array examples based on HVAC configuration and needed UV dose.

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UVMatrix™ LCI modular UV-C disinfection

Independent testing confirms disinfection performance

Viral challenge studies were designed by the independent testing firm **Innovative Bioanalysis, Inc. of Costa Mesa, California**, to determine the efficacy of the **Ultravation LCI UV-C** air and surface disinfection system against coronaviruses, specifically SARS-CoV-2. The validation of the results was confirmed in testing following industry and ASHRAE recommendations and guidelines. The results showed that **99.99% of the target virus was deactivated within 2 seconds of exposure** (see full report data at Ultravation.com).



Real-time 254nm UV Monitoring:

UV-C intensity and operational live monitoring available. See page 3 for more information.

Ultravation UVMatrix LCI-Series is a breakthrough in flexibility in UVGI for HVAC air handlers. Available in 2, 4 and 6-lamp configurations that can be combined for complete germicidal coverage of any cooling coil configuration. UVMatrix LCI is a highly efficient solution to achieve target performance for surface disinfection (coils, drain pan, blower) and is easily configured for in-duct airstream disinfection (see page 9).

No ozone

Conforms to UL 2998 (3rd Edition, July 10, 2020) clause 6.2, emittance of ozone not exceeding a concentration of 0.005 ppm.

Modular design/build:

Choose from 33-, 44- and 64-inch Ultravation® T3™ UV-C lamps.

Remote, water-tight power cabinet:

All lamps powered from a single power source installed inside or outside the air handler.

The ultimate in flexibility:

Install different UV-C lamp lengths as needed using the same power enclosure.

Design flexibility for perfect fit and optimized UV-C coverage

The design flexibility of the UVMatrix LCI system allows for multiple lamp lengths to be used by the same enclosure for optimized UV-C coverage. Modular frame design with aluminum supports are pre-drilled for accurate lamp positioning / adjustable length assures fit with any coil with no cutting needed.

Customizable 20 ft. UV-C lamp leads:

Easily create clean cable runs while maintaining fast and efficient installation.

Lamp mount options:

Fasten lamps to vertical supports with strong magnets or aluminum brackets.



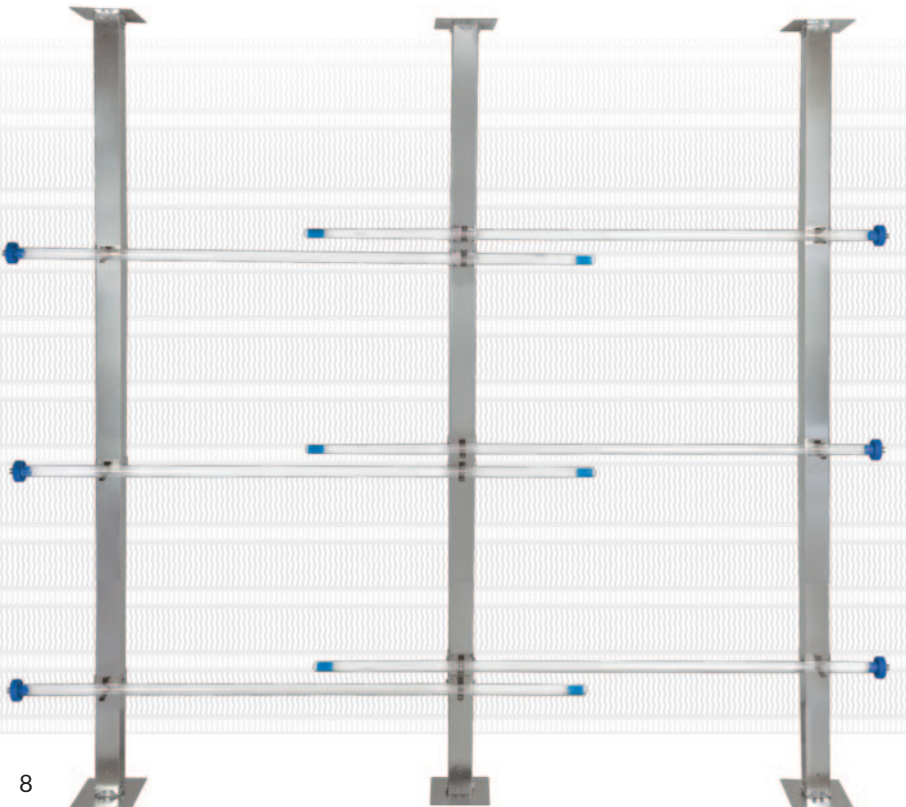
NEMA-4X rated

electrical cabinet for operation outdoors and in wet areas. The cabinet is fiberglass and weather-tight for corrosion resistance.



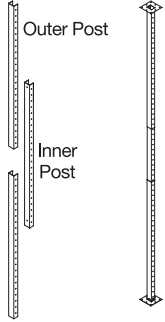
Easily accessed connections

to electronic smart-power supplies.



All UVMatrix LCI UV systems are assembled from these fundamental components

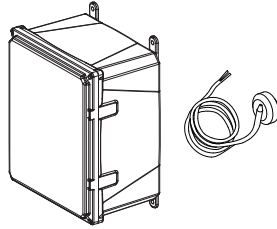
Adjustable UV-C lamp supports



VXP-120

Adjustable without cutting up to 120"
(At least two posts required for any installation)

Water-tight electrical cabinet

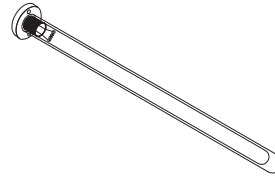


LCI-2 • LCI-4 • LCI-6

2-, 4-, and 6-Lamp
LCI Power Enclosure

NEMA 4X rated
20 ft. UV lamp leads included

T3™ 254nm UV-C lamps



AS-IH-0610

62" T3 Lamp • 0.625 amps @ 120V

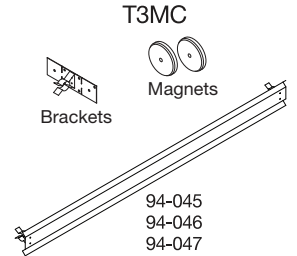
AS-IH-0612

48" T3 Lamp • 0.49 amps @ 120V

AS-IH-0611

33" T3 Lamp • 0.35 amps @ 120V

Mounting hardware



T3MC

Brackets

Magnets

94-045
94-046
94-047

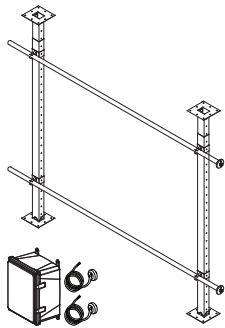
T3MC Lamp mounting hardware with
-M / 94-068 magnets (two per lamp)
supplied

94-045 • 94-046 • 94-047
33", 48", and 62" UV light shield

Basic LCI configurations, customizable to fit any air handler

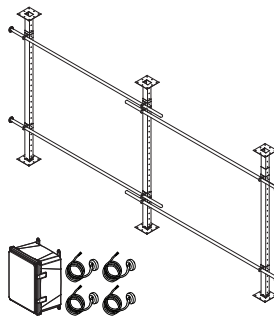
Coil Disinfection

Two-lamp assembly



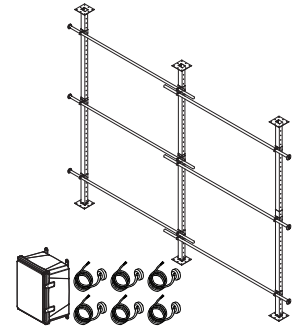
VXP-120 Vertical supports (2)
LCI-2 Power enclosure
AS-IH-0610 UV-C lamps (2)
T3MC LCI mounting clamps (4)

Four-lamp assembly



VXP-120 Vertical supports (3)
LCI-4 Power enclosure
AS-IH-0610 UV-C lamps (4)
T3MC LCI mounting clamps (8)

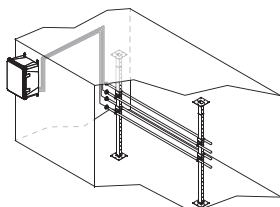
Six-lamp assembly



VXP-120 Vertical supports (3)
LCI-6 Power enclosure
AS-IH-0610 UV-C lamps (6)
T3MC LCI mounting clamps (12)

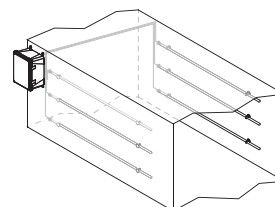
Airstream Disinfection

Center-duct configuration



VXP-120 Vertical supports (2)
LCI-4 Power enclosure
AS-IH-0610 UV-C lamps (4)
T3MC Lamp mounting hardware with -M / 94-068
magnets (two per lamp) supplied

Side-access configuration



LCI-6 Power enclosure
AS-IH-0610 UV-C lamps (6)
T3MC LCI mounting clamps (12)
-M Mounting magnets (12)

Ultravation® UVMatrix™ PCO odor and VOC reduction

Independent testing confirms disinfection performance

Viral challenge studies were designed by the independent testing firm **Innovative Bioanalysis, Inc. of Costa Mesa, California**, to determine the efficacy of the **Ultravation UVMatrix PCO** air and surface disinfection system against coronaviruses, specifically SARS-CoV-2. The validation of the results was confirmed in testing following industry and ASHRAE recommendations and guidelines. The results showed that **99.99% of the target virus was deactivated on surfaces within 30 minutes of exposure** (see full report data at Ultravation.com).

Creating healthier and productive indoor environments

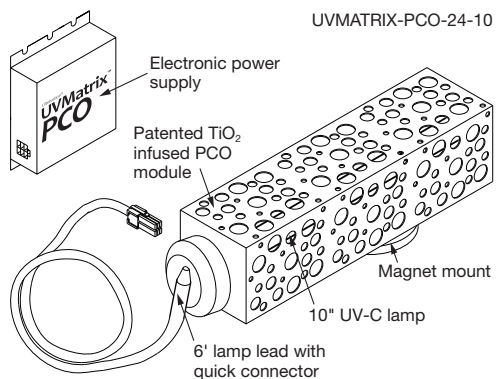
The UVMatrix PCO purification system creates healthier and cleaner indoor air by breaking down air contamination in the HVAC airstream. The photocatalytic oxidation or PCO process is germicidal to intercept circulating microbes/pathogens of all types (killing bacteria and viruses in seconds) and will remove potentially harmful VOCs (volatile organic compounds), odors, and other airborne chemical compounds by breaking their chemical bonds.

The process

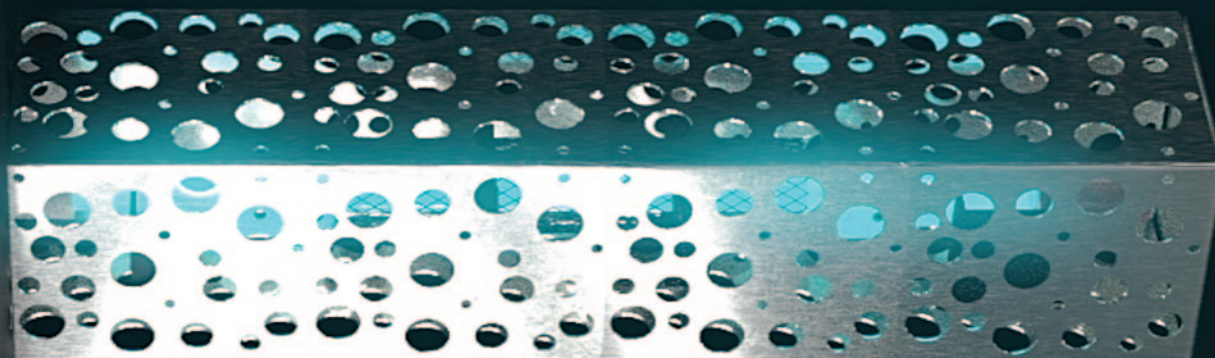
The air purification modules are coated with a patented titanium dioxide (TiO₂) + zinc (Zn) and silver (Ag) ion PCO formulation. The PCO formulation is energized by UV-C light, driving the interaction of the PCO formulation with airborne contamination, resulting in the breakdown of the molecular structure of the contamination into its non-harmful component parts. In the case of biological contamination, both the UVGI and the PCO formulation come into play—the UV-C light penetrating and destroying DNA and the PCO process reacting with and destroying cellular membranes.

Versatile and expandable

The UVMatrix PCO series is designed for HVAC systems from 1,200 to 8,000 CFM. Two sizes are available to accommodate any HVAC configuration with a rate of effectiveness. The system can also power a second PCO module if VOC / odor levels call for it. Or, add a 12" or 17" high-intensity UV-C lamp for surface disinfection. UVGI disinfects the HVAC coil (which can significantly lower HVAC energy consumption), drain pan and other surfaces. It also works in tandem with the PCO module to create two disinfection zones in the HVAC airstream for an intensified reduction of airborne pathogens.



UVMatrix PCO continuously cleans the HVAC air stream, reducing microbial populations, VOCs and odors.

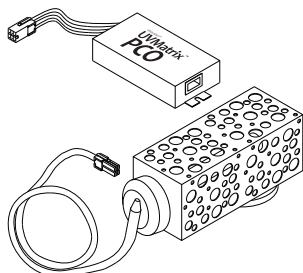


UVMatrix™ PCO Features

- Two module sizes: 4" and 10"
- 18,000-hour lamp life
- 10-year system warranty (excludes lamp)
- 1-year UV lamp warranty
- Easy maintenance with extended two-year UV-C lamp replacement interval.
- Available T3™ enhanced lamp system for surface disinfection and additional pathogen reduction.
- Reliable and UVC-optimizing electronic power supply helps extend lamp life.
- Compact Power Supply: just 3.5" x 3.5" x 1"
- Available for 24, 120-277 VAC operation
- 6 ft. power cord (24 VAC models)
- Installation is straight-forward with pre-installed magnet mount design.

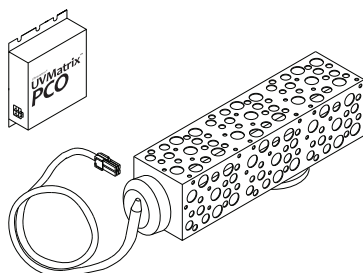
Basic configurations

4" PCO Modules



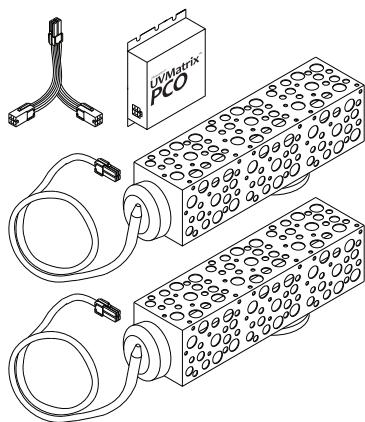
The 4" UVMatrix™ PCO system (UVMATRIX PCO-LV-4)

10" PCO Modules



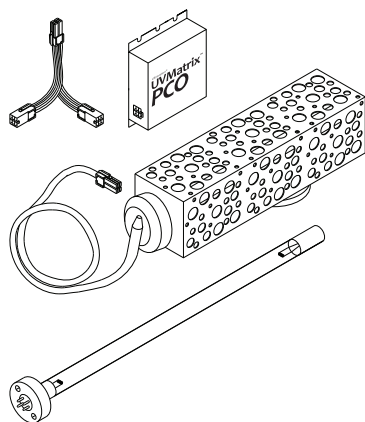
The 10" UVMatrix™ PCO system (UVMATRIX PCO-24-10)

Two 10" PCO Modules



The UVMatrix™ PCO-24-2-10 features two 10" PCO modules that connect to the power supply using a Quick Connect Y Adapter.

10" PCO Module plus UV-C

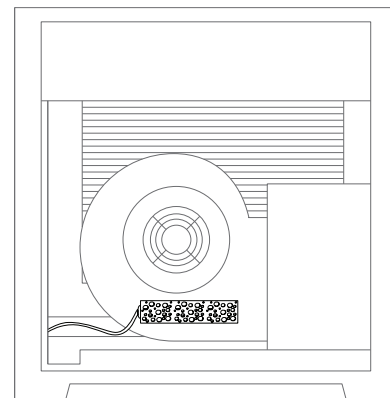
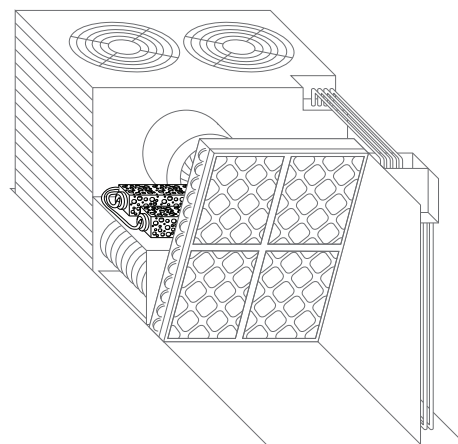


The UVMatrix™ PCO-24-10 features a PCO module and an EZ-Light 6P Germicidal UV-C lamp (UV lamp available in 12" and 17" lengths, and uses the Quick connect Y adapter to connect .

Additional configurations are available.

All models available with a 120-277 VAC power supply or a 24 VAC power supply.

Installs in any packaged system



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UVMatrix™ M-Series UV™ Compact disinfection



UV-C disinfection for mini-split ductless AC

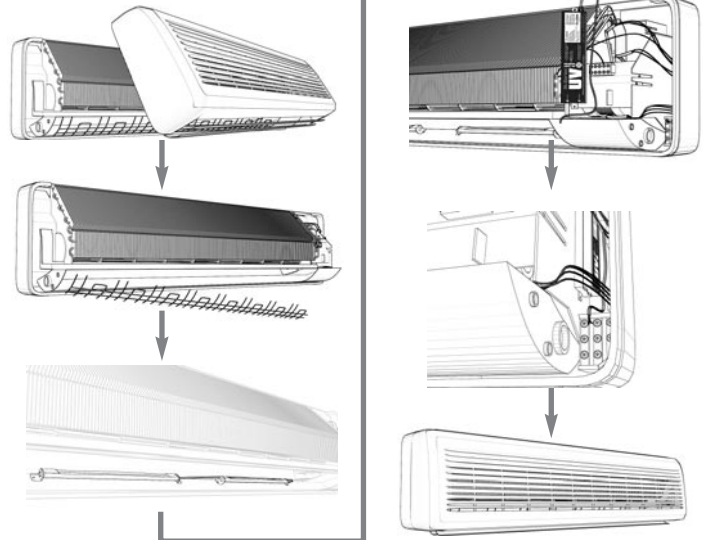
Stops bio-growth on fan, coil and other surfaces, and related bad odors.

Designed to fit major brands with easy installation, effective disinfection and smart electronics.

- Super compact / high intensity
- Easy fit / install with 4 ft lamp leads
- 120-240 VAC (auto sensing)
- 360° UV shield rotation
- Two germicidal 254nm UV lamps
- Twin LED display
- Rugged construction
- Three-year system warranty (lamps one-year)



Easy install



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Learn more at Ultravation.com



Ultravation® UVMatrix™ ClearCubes Ice machine disinfection

UV-C Disinfection for Ice Machines *Kills bacteria, viruses and mold*

Keep your ice machine sanitized at all times with germicidal UV light!

Even, constant germicidal UV-C light de-activates common microbial contamination including mold, bacteria and viruses. Yet the regulated intensity disinfects without damaging plastic materials inside the ice machine.

- **Safer, cleaner ice:** Applies germicidal UV 24/7 to keep microbial growth down at all times— preventing the gradual build up that happens between conventional cleanings.
- **Shatter resistant:** Lamps are Teflon™ encased.
- **Reduces maintenance costs** by reducing the number of cleanings needed.
- **9,000 hour lamp life.**
- **Effective against all types of organisms.**
- **Odor reduction:** The reduction of microbes helps keep bad odors from forming in the machine.
- **Auto-voltage:** Auto adjusts for 120 or 240 VAC power.
- **Universal fit:** Compact size—fits virtually all ice machines.
- **3-year warranty** UV lamps excluded.
- **Convenient installation:** Lamps and power supply install using provided high-tack adhesive strip mounting, and/or provided screws.
- **Combine products for larger systems.**



Learn more at Ultravation.com



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Better Air | Better Water | Better Living™

Ultravation®

BIOGARDUV™ “Upper Air” UV system

Air disinfection for individual rooms and public spaces



Ultravation® BioGardUV™ germicidal ultraviolet air disinfection (UVGI) destroys airborne pathogens by creating a disinfection zone in upper regions of a room (above 7 ft.) using UV light. Available as 100% silent convection models or fan-assisted models with ion generation,

depending on the need. Air that becomes bio-contaminated and warmed in the lower part of a room (from respiration and other sources) naturally circulates to the upper regions, where it will be exposed to germicidal UV-C light, which kills airborne bacteria and viruses in seconds. To accelerate air flow, models with built-in circulating fans can be specified. Fan accelerated models (FS-22F and FS-33F) include bi-polar ionization that breaks down odors and airborne toxins, and facilitates microparticulate reduction while augmenting air disinfection. **Since the UV light field is restricted to areas above seven feet, the room is safe for occupancy while the air is continuously disinfected.** These systems do not produce ozone.

BioGardUV™ is energy-efficient, using no more power than a fluorescent lamp. Models with fans use slightly more power to create a quiet but controlled circulation of air.

Two sizes are available in both wall-mount and ceiling mount models. Ceiling mount models install flush-to-ceiling or can be hung with optional pendants. Ceiling mount models create two disinfection zones, front and rear.

Sizing assistance: Contact Ultravation for advice on unit configurations and placement for your particular building layout.

Features:

- Focused 254nm germicidal UV-C wavelength
- 9,000 hour UV lamp life
- Galvanized steel construction
- Safety interlock switch
- Energy-efficient
- Powder-coat finish
- Optional bi-polar ionization

UVGI is recognized by ASHRAE*, the EPA and the CDC

UV has been proven in laboratory studies to achieve a 99.9% kill rate on static coronaviruses including SARS-CoV-2 in 2 seconds.

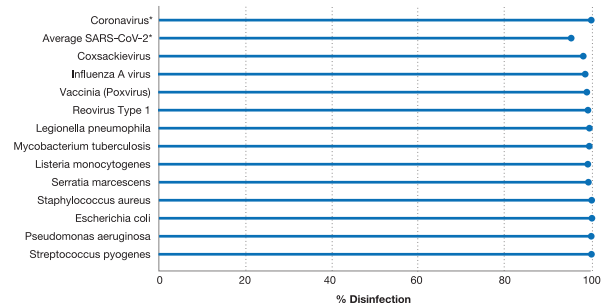
UV-C light is the only air disinfection technology that is supported as effective by ASHRAE.

ASHRAE's recommendation for airborne pathogen reduction: "Consider adding air treatment and cleaning devices such as UVGI (ultraviolet germicidal irradiation) in duct, plenums and air handling units and on the face of cooling coils."

To see ASHRAE's online guide to commercial building preparedness, visit: www.ashrae.org/technical-resources/commercial

*American Society of Heating, Refrigerating and Air-Conditioning Engineers

UV effectiveness against various microbes



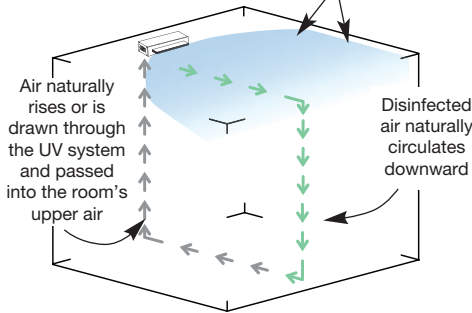
Percentage disinfection calculations are based on intensity at end of (9,000 hour) lamp life.

*There are many strains of coronavirus that have been identified. This chart lists just two.

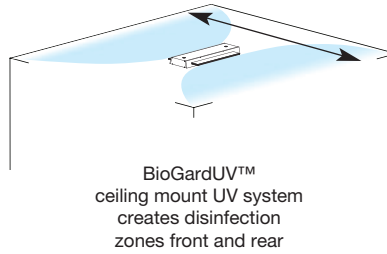


How BioGardUV™ FS-Series reduces airborne microbes in occupied rooms

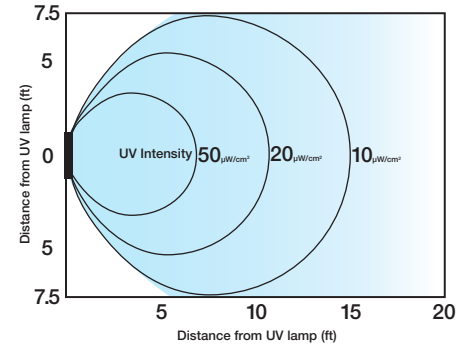
BioGardUV™ Air circulation through disinfection zone



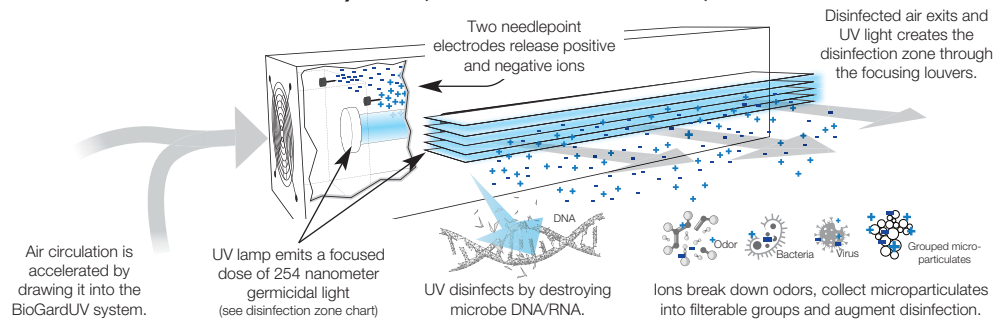
BioGardUV™ Extended coverage for larger spaces



BioGardUV™ FS-22 Upper air irradiance 15 x 20 ft room



BioGardUV™ Air Flow System (with fan and ionization)



FS-22 Wall mount
FS-22-CR Ceiling mount
26 1/8" wide



FS-33 Wall mount
FS-33-CR Ceiling mount
37 5/8" wide

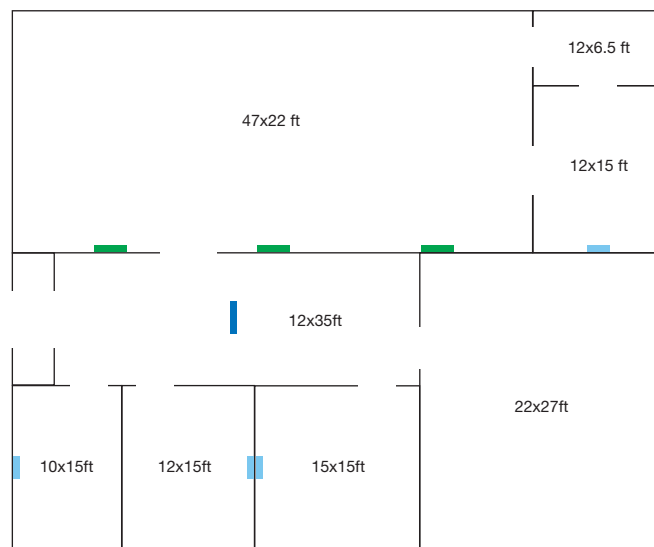


FS-22F Wall mount
FS-22F-CR Ceiling mount
26 1/8" wide

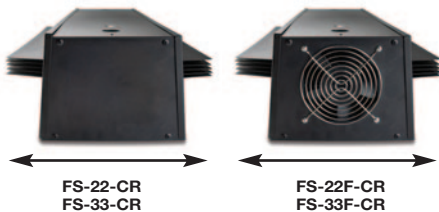


FS-33F Wall mount
FS-33F-CR Ceiling mount
37 5/8" wide

Typical placement for various models



Getting the right UV coverage: Contact us for information and advice on the number of units required to meet your goals based on room size, and for placement suggestions



Bi-directional / Ceiling Mount

Ultravation® UVMatrix™ CIS rapid pulse air ionization

Micro and nanoparticles have been found to have adverse effects on those with respiratory and cardiovascular issues—especially since they readily pass through natural respiratory defenses.

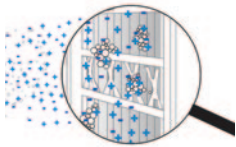
No ozone

Conforms to UL 2998 (3rd Edition, July 10, 2020) clause 6.2, emittance of ozone not exceeding a concentration of 0.005 ppm.

UVMatrix™ CIS rapid pulse ions statically charge nanoparticles so they attract into groups that quality filtration can capture. CIS ions react with complex molecular and biological contamination, decomposing it.

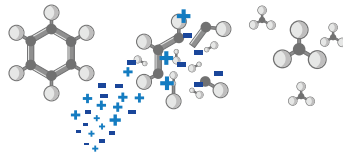
Ultra-fine particulate reduction

Ions electrically charge micro and nanoparticles which attract into filterable groups, enhancing filter efficiency for small particulates



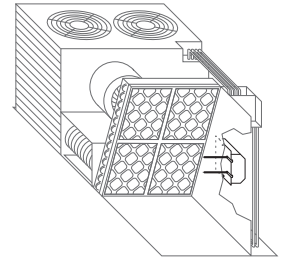
Odor reduction

Ions react with odor / VOC molecules, disrupting molecular bonds, reducing them to the normal components of air.



CIS6: Ionization for 4-6 ton HVAC systems

The UV Matrix CIS-6 is a 2-pin ionizer that can be used singularly or in multiples.



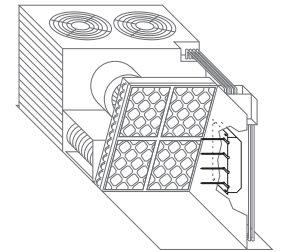
- 4 rapid pulse emitters
- Adjustable emitters to mount inside or outside the air handler

- Available magnet mounts for easy internal mounting



CIS12: Ionization for 7-12 ton HVAC systems

The UV Matrix CIS-12 is a 4-pin ionizer that can be used singularly or in multiples.



- 2 rapid pulse emitters
- Adjustable emitters to mount inside or outside the air handler

- Available magnet mounts for easy internal mounting

Three configurations accommodate a wide range of applications. Installation options ranging from 4 ton HVAC systems to large air handlers.

CIS36: Designed for large air handlers

The UV Matrix CIS 54-inch wide 12-pin ionizer (pictured below) can be installed directly in many air handlers. Using the optional VXP rack it readily fits virtually any large air handler to install a single or multiple units—usually on the return side of the HVAC coil.

- 12 rapid pulse emitters
- VXP® Rack mount-able (see page 8) in large air handler

- For larger systems rack-mount multiple CIS units
- 20 ft. power lead



Ultravation® UVMatrix™ 4X-Series

UV-C disinfection for outdoor and rooftop HVAC applications with remote monitoring available.



Ultravation® UVMatrix™ EZ-Light

UV-C for ice machines and PTAC systems.

Prevents bio-growth and odors. 12", 17", 22", 33", 48" and 62" lamp lengths.



Member:



EPA establishment number: 074725-VT-001

Ultravation's T3™ system is protected by US patents 6,809,326B2 and 6,838,057B2
Ultravation's SI-Series™ system design is protected by U.S. patents 7419642B2 and 682805B2
These products are not medical devices. Ultravation, Inc. makes no claim that they prevent or cure any viral infection or any other disease.

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Better Air | Better Water | Better Living™

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