

UVPhotoMAX™

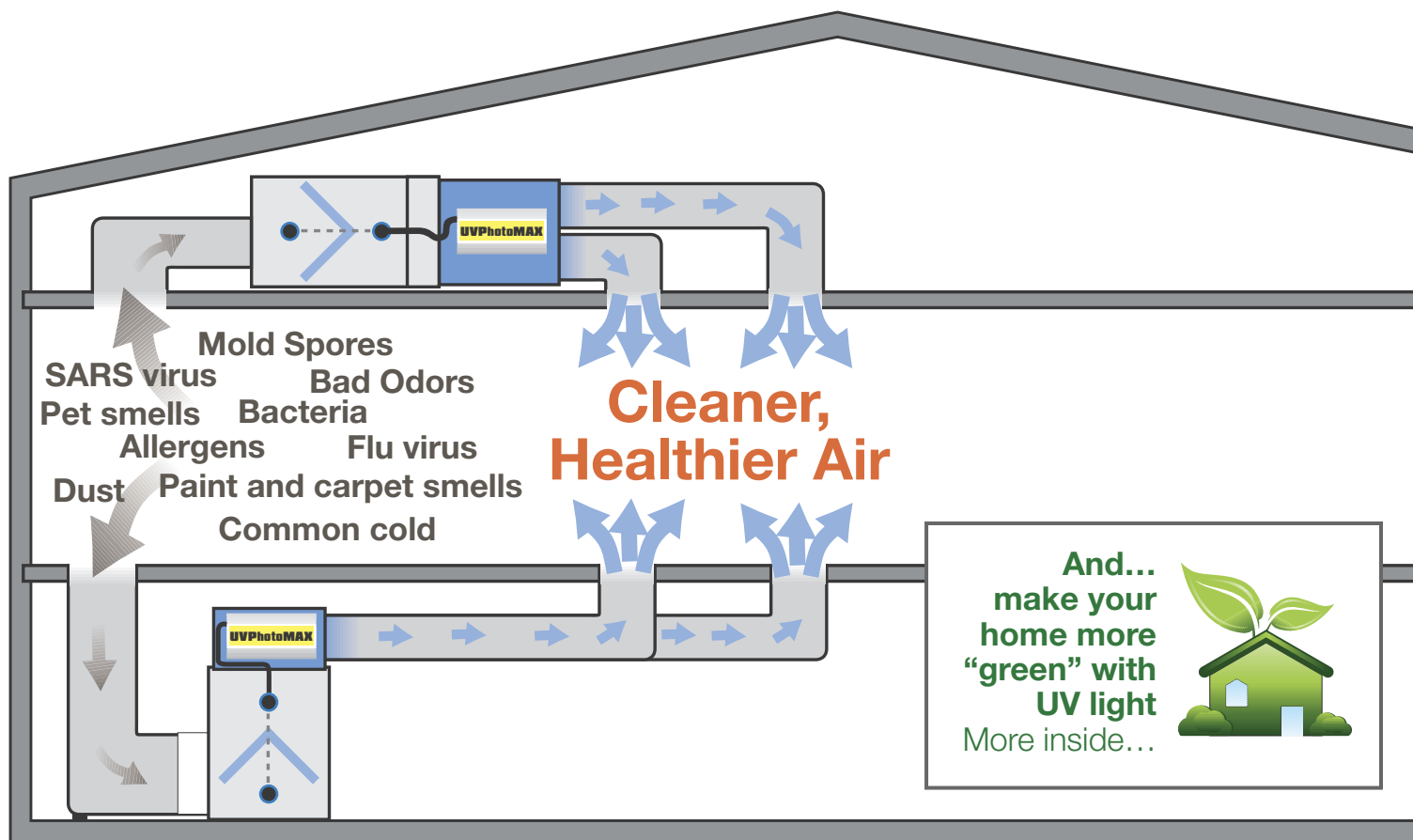
UVPhotoMAX™ uses the power of UV light and an exclusive photocatalytic process to make the air in your home healthier. It reacts with and **destroys millions of bacteria, viruses, allergens—especially mold**—in the air passing through your HVAC system.



Ultravation®

Professional Indoor Air Quality Products

ultravation.com



And...
make your
home more
"green" with
UV light
More inside...





Add an entirely new dimension to “conditioning” the air in your home—for healthier air!



Bring the power of sunlight into your home to control germs and odors—and enjoy healthier, fresher air throughout your home!



Remove cooking smells



Get control of pet odors



Allergy relief especially from mold



Fewer germs in the air for fewer colds and illnesses

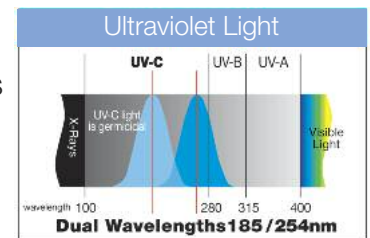
In the traditional sense, a household HVAC system adds great comfort to a home by cooling and heating the air, as well as controlling humidity. **With the addition of UVPhotoMAX™, your HVAC system can do much more!**

UVPhotoMAX™

UVPhotoMAX installs in your HVAC system to improve indoor air quality (IAQ), treating the air for bacteria, viruses, allergens, and odor contamination.

- **Germicidal UVC light disinfects the air**

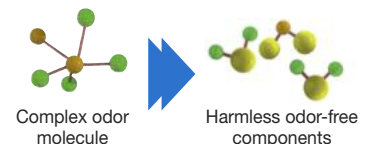
The UVPhotoMAX™ air purifier uses UV light to kill millions of airborne bacteria and viruses (including the flu). UV is a well known disinfectant, used since the 1930s in hospitals, doctors offices, pharmacy and food industries as well as water treatment. It simply inactivates microscopic organisms, rendering them harmless. It leaves no by-products and uses no chemicals. UV is a component of sunlight—nature's way of controlling airborne microorganisms.



UVPhotoMAX™ uniquely uses two wavelengths of UV-C light to kill germs and destroy odors.

- **ReFresh™ system destroys odors**

At the heart of each UVPhotoMAX is the Ultravation® ReFresh™ Advanced Oxidation photocatalytic reactor, with the Photon Clarifier***. Hundreds of odors from pets, foods, cooking, trash and garbage, paint, carpet, cleaning agents, musty damp smells from mold and mildew are broken down. All organic odors (VOCs*) are treated.



- **Relief for allergy sufferers**

The advanced oxidation process and Dual-Band UV Emitter™ will break up or destroy any organism including allergens such as mold.

- **Save Energy with UVPhotoMAX**

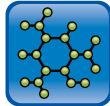
The **EZ-Light** remote UVC light option keeps mold and other bio-contamination from growing on the moist areas inside the HVAC system, especially the coil. Keeping the coil clean can dramatically reduce mold allergen counts, and it prevents biogrowth from clogging up cooling coil fins. Clogged fins insulate and block air flow causing the HVAC system to run longer, and work harder, which wastes significant energy.



Ultravation utilizes the science of nanotechnology to create healthier indoor air for your home




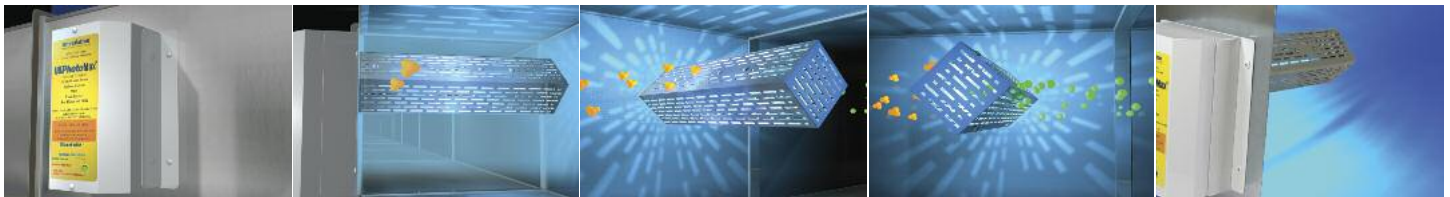
ReFresh™ Advanced Oxidation uses two bands of UVC light and a special photocatalyst to make UVPhotoMAX™ a compact yet powerful system for creating healthier air for the whole house.



Utilizing a proprietary formula, the Ultravation ReFresh™ air purifying process brings the science of nanotechnology into indoor air quality improvement. Titanium Dioxide (TiO₂) is used to promote an ionic discharge from the UVPhotoMAX metal Oxidation Chamber. The use of Ultravation's exclusive Dual-Band UV Emitter™ high efficiency germicidal lamp produces plasma wavelength energy in the key bandwidths of 185NM to 254NM. As a UV powered system, operating on a molecular scale, the oxidation process quickly reduces or eliminates even the most stubborn odors, as well as killing millions of airborne pathogens including common viral flu strains, bacteria and mold spores.



 All Ultravation products are designed and built in the USA



UVPhotoMAX installs on HVAC air ductwork at the outlet of the HVAC system.

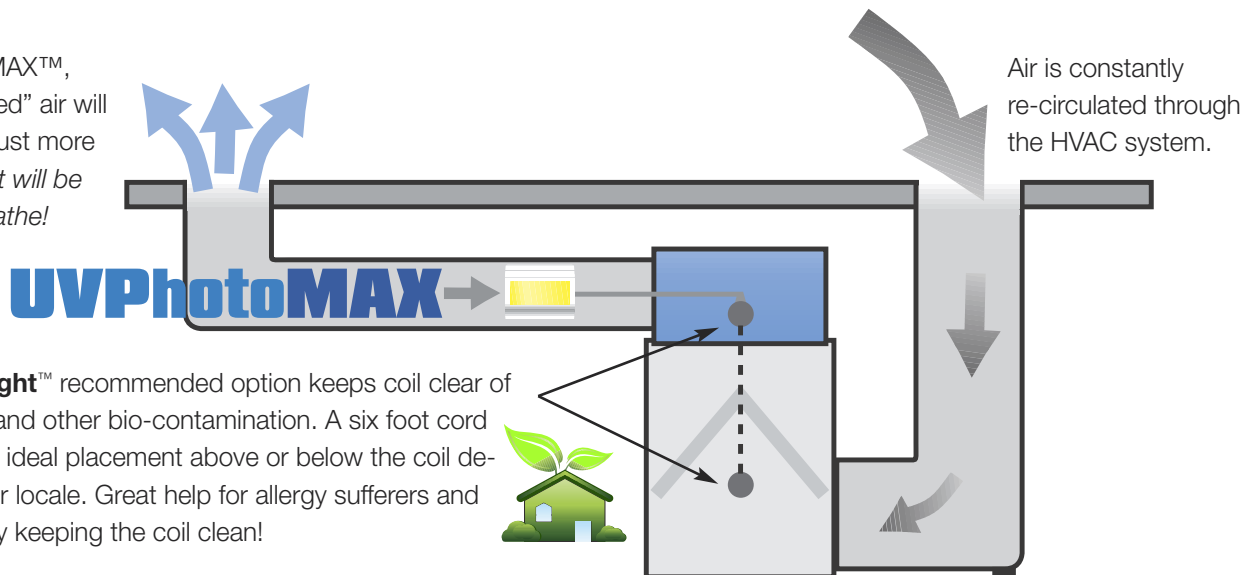
The Oxidation Chamber extends inside the air duct, creating a disinfection and oxidation zone that the circulating contamination must pass through.


Approaching airborne bacteria, viruses and allergens are exposed to a lethal dose of UVC light.

The process is completed as airborne odors and microorganisms are broken down into harmless components.

Actual photo of UVC light dispersion around the Oxidation Chamber.

With UVPhotoMAX™, your "conditioned" air will be better than just more comfortable— *it will be healthier to breathe!*



 **EZ-Light™** recommended option keeps coil clear of mold and other bio-contamination. A six foot cord allows ideal placement above or below the coil depending on your locale. Great help for allergy sufferers and saves energy by keeping the coil clean!

*VOCs are Volatile Organic Compounds. They make up hundreds of household odors that are generated from common activities like cooking, cleaning and home improvement projects.



Built to last, smart features, expandable, saves energy. Make UVPhotoMAX your partner for better air!

Ready for any HVAC system
UVPhotoMAX™ comes with a ductboard mounting plate.

Extend your UVPhotoMAX™ system to clear mold and other biogrowth growing inside the HVAC system itself! Install the optional **EZ-Light™** remote UV lamp and prevent mold (a major allergen) from growing on the moist HVAC coil and related parts. The lamp is specially made to be powered directly by the UVPhotoMAX™ base unit.



The advanced oxidation process is controlled by our patented*** **Photon Clarifier™**— and



Dual-Band UV Emitter™, an Ultravation exclusive! The exact amount of treatment is adjustable based on living space, temperature, humidity, and other factors.



The **Photon Clarifier™** inside the cabinet is adjusted just once during installation, based on size of your home and the particular HVAC system.



Energy efficiency and power
State of the art ESP² electronic power supply runs cool and tightly controls the lamp for better efficiency, saving energy.



Convenience and Safety
UVLampMonitor microprocessor control triggers audible and visual alarms to remind when to change the UV lamp, or to notify if a lamp goes out.

EZ-Light™ features include a 12" or 17" T3™ high performance germicidal UVC lamp, a UV Shield/Focuser to direct UV to needed areas and away from UV sensitive areas, UV Status Lens integrated into the lamp base, and optional magnet lamp mount.



10-year system warranty (excludes UV Lamps)



We recommend installation by an HVAC professional

UVPhotoMAX™ is a comprehensive system that will offer best performance when installed by an indoor air quality expert, who can help you evaluate your home's IAQ needs, your particular HVAC system, find the best location for the equipment and adjust it for peak performance. **Need to find a contactor?** Find one by visiting us at Ultravation.com

Indoor air as healthy as the great outdoors™



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The virus that causes SARS is thought to be transmitted most readily by respiratory droplets (droplet spread) produced when an infected person coughs or sneezes... — Centers for Disease Control and Prevention

Respiratory irritants in home extend beyond pets: cleaning sprays [VOCs] were found to increase the risk of new asthma symptoms or medication use. — encyclopedia.com

EPA's Office of Research and Development's "Total Exposure Assessment Methodology (TEAM) Study" found levels of about a dozen common organic [VOC] pollutants to be 2 to 5 times higher inside homes than outside, regardless of whether the homes were located in rural or highly industrial areas. — EPA: Introduction to Indoor Air Quality

The hypersensitivity diseases most clearly associated with indoor air quality are asthma, rhinitis and hypersensitivity pneumonitis.

— EPA Indoor Air Assessment

Using UV-C lights in HVAC systems can clean and prevent mold growth, providing greener indoor environments as well as energy and maintenance cost savings. — Environmental Design and Construction, edcmag.com

UVPhotoMAX™ destroys airborne viruses, bacteria and allergens

As air is re-circulated through your HVAC system, airborne microorganisms are killed as they pass through the UV-C light emitted by the UVPhotoMAX. To the right are just a few of the pathogens that are destroyed with UV light.

Bacteria	Sick Building Syndrome	Stachybotrys atra	Streptococcus pyogenes
Viruses	Measles	Neoformans	Bacillus anthracis
Legionella pneumophila	Tuberculosis	Mucor ramosissimus spores	Cornibacterium diptheria
Pollen	Chicken Pox	Aspergillus niger	Serratia marcescens
Mold spores	Humidifier Fever	Adenovirus	Neisseria meningitidis
Fungi	Microplasma pneumoniae	Coxsackievirus	Moraxella Acinetobacter
Ragweed	Penicillium expensum spores	Mycobacterium kansasii	Haemophilus influenzae
Dust mites	Cryptococcus	Mycobacterium aviumintra	Pseudomonas aeruginosa

UVPhotoMAX™ also destroys hundreds of common VOCs and household odors

Here are some common sources of VOC* odors that UVPhotoMAX™ is highly effective at removing. And it works automatically within your HVAC system. List source: U.S. Environmental Protection Agency

Carpet adhesive	Office furniture—upholstered	Photocopier, wet-process	Water-based finish
Flooring adhesive	Office furniture—wood	Printer, laser	Water-based paint
General adhesive	Residential furniture—metal	Spirit duplicator	Wax
Kitchen cabinets	Furniture—upholstered	Digital duplicator	Hair spray
Caulks & Seals	Residential furniture—wood	Vacuum cleaner	Pesticides
Detergent	HVAC Systems	Brick	Moth repellent
Disinfectants	HVAC Components	Ceramic tile	Space heating and cooking
Cleaning agents	Air cleaning devices	Clothing	Ceiling tile
Solvent-based cleaners	Air moving equipment	Concrete	Gypsum board
Carpet—synthetic fiber	Cooling coils	Microbial culture	Plaster
Carpet—wool fiber	Ductwork	Mortar	Wall paneling
Carpet cushion	Heating coils	Animals (pets)	Wallpaper/wall covering
Carpet system	Humidification equipment	Cooking	Particleboard
Cork flooring	Fibrous insulation	Smoking	Plywood
Linoleum	Foam insulation	Paints & Coatings	Solid natural wood product
Sheet vinyl flooring	Air cleaner, in-room	Oil-based finish	Veneer
Tile vinyl flooring	Air conditioner, room	Solvent-based paint	Waferboard/chipboard
Wood flooring	Electronic circuit boards	Stain	
Drapery	Humidifier, in-room	Turpentine	
Office furniture—metal	Photocopier, dry-process	Varnish	

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Professional Indoor Air Quality Products

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Ultravation: For Total Indoor Air Quality (IAQ) Solutions

Complete your IAQ system with effective, practical long life air cleaning

ProgressiveMedia™ Filtration



It starts with a THIRTY-TWO square foot, hypo-allergenic, multi-layered air filter!

That's how much filter is folded into an Ultravation® ProgressiveMedia™ five inch pleated filter. You'll enjoy very long overall filter life and an extended period of very high efficiency air cleaning. In addition, ProgressiveMedia's special layered construction gives this air filter exceptional dirt holding capacity.

Allergy Relief: 99% efficient on pollen

Pollen is easily captured in ProgressiveMedia™ but it does much more. Other irritants such as mold and dust mite allergen are also effectively removed from the airstream—not to mention lots of dust and dirt.

Welcome to MERV 11, the ideal filter rating

The EPA considers MERV 11 performance to be premium for residential applications. Ultravation® ProgressiveMedia™ filters meet the MERV 11, ASHRAE 52.2 industry test standard. So, you can count on 85% efficiency on particles 3 to 10 microns—just the right amount of filtration for most homes, yet ProgressiveMedia™ won't overload the system with air restriction.

Exceeding the standard—defining a great filter

With ProgressiveMedia™ we offer a filter design that achieves high efficiency with very low air restriction—even lower restriction than a MERV 8 filter! Yet, you'll enjoy as much as 40% more dirt catching efficiency than a MERV 8 filter, especially in the critical initial hours of operation. You'll get premium filtration performance and save money on filter replacement costs, and energy! The superior filtration performance of Ultravation® ProgressiveMedia™ is obtained without electricity, ozone generation, or the frequent maintenance required with electronic filters. You just replace your ProgressiveMedia™ filter cartridge twice a year! (Suggested replacement interval. In many homes they last much longer!)

UltraStrand™ fibers with electrostatic charge

ProgressiveMedia™ filters are made with our special, UltraStrand™ "shaped design" fibers. This design enables the filter to capture the smallest particles very effectively, and it is an important key to the filter's high efficiency, long life and small particle performance. In addition, UltraStrand™ fibers are hypo-allergenic and made from continuous 100% synthetic material. To enhance performance still further, the fibers are given a permanent electrostatic charge that draws particles into the tiny grooves, edges and pockets—like a magnet.



Available in configurations to fit any HVAC configuration!

Build an integrated and effective IAQ system!

Consult with your HVAC professional to find which model is right for you.

Visit Ultravation.com for a complete directory of authorized contractors.



Members:



All Ultravation products are designed and built in the USA

EPA establishment number: 074725-VT-001

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Ultravation, Inc. PO Box 165, Poultney, Vermont 05764 • 866.468.8247 F802.287.9203 • info@ultravation.com • www.ultravation.com