



UVPhotoMAX™

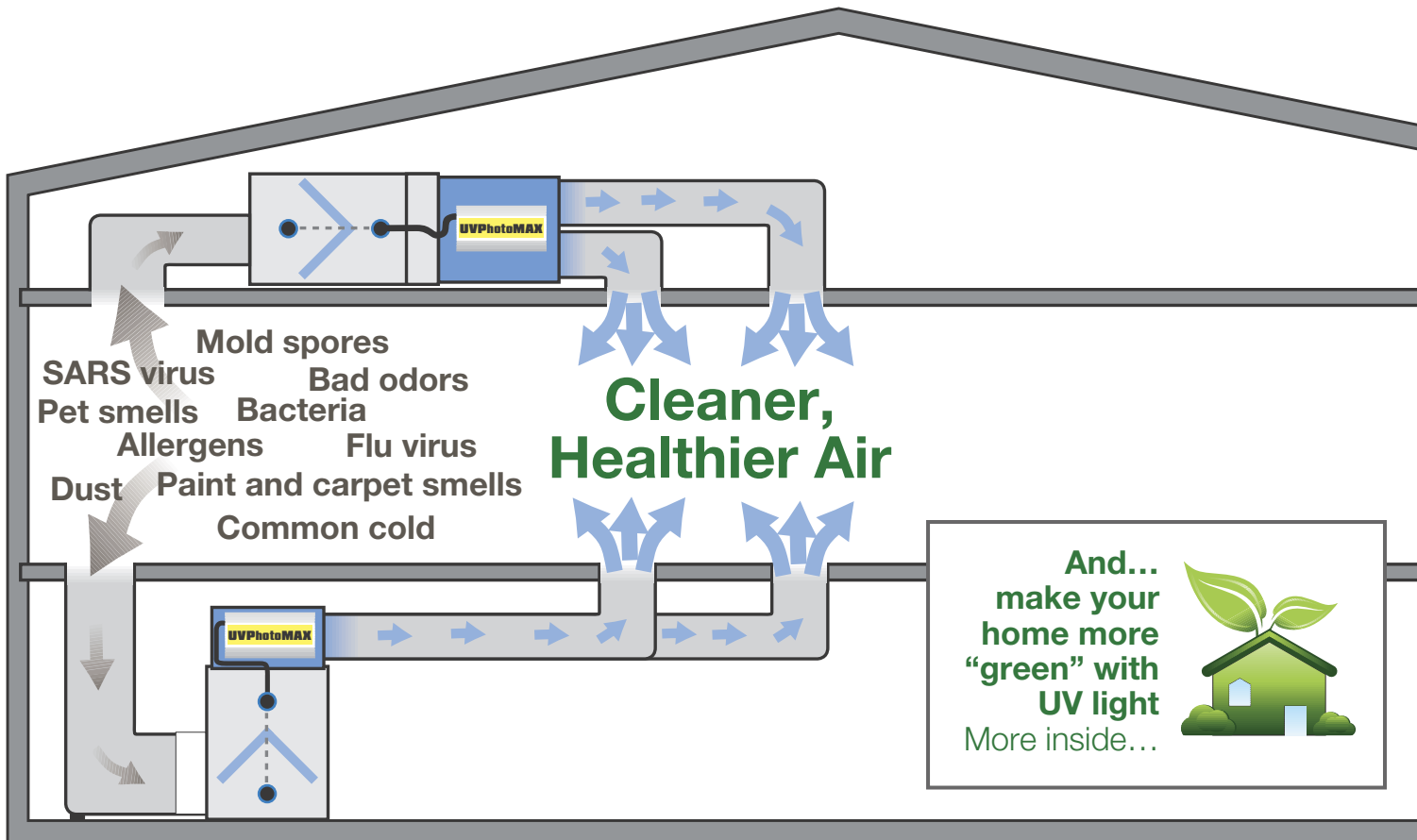
UVPhotoMAX™ uses the power of UV light and an exclusive photocatalytic process to make the air in your home healthier. It reacts with and **destroys millions of bacteria, viruses, allergens—especially mold**—in the air circulating through your HVAC system.



Ultravation®

Professional Indoor Air Quality Products

ultravation.com





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! You'll enjoy healthier, fresher air in every room.



Remove cooking smells



Get control of pet odors



Allergy relief especially from mold



Fewer germs in the air for fewer colds and illnesses

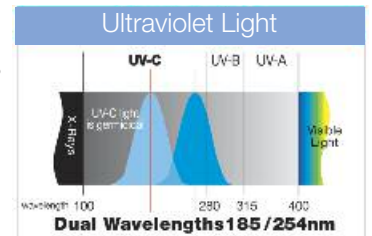
*In the traditional sense, a household HVAC system adds great comfort to a home by cooling and heating the air, as well as controlling humidity. **With the addition of UVPhotoMAX™, your HVAC system can do much more!***

UVPhotoMAX™

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

• Germicidal UVC light to disinfect the air

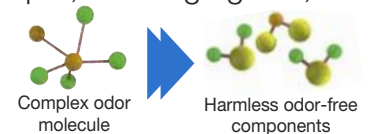
The UVPhotoMAX™ air purifier uses UV light to kill millions of airborne bacteria and viruses (including the flu). UV is a well known disinfectant, used since the 1930s in hospitals, doctors offices, pharmacy and food industries as well as water treatment. It simply inactivates microscopic organisms, 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, controlled by the Photon Clarifier*** for optimizing performance. Hundreds of odors from pets, foods, cooking, trash and garbage, paint, carpet, cleaning agents, plus musty damp smells from mold and mildew are broken down. All organic odors (from VOCs*) are treated.



• Relief for allergy sufferers

ReFresh™ advanced oxidation breaks up and destroys airborne mold and other allergens, too. When the optional EZ-Light™ is installed and connected to the UVPhotoMAX base unit, airborne mold allergen caused by the typically moldy HVAC coils is *dramatically* reduced.

• Save Energy with UVPhotoMAX

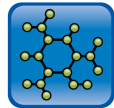
The **EZ-Light™** remote UVC light option keeps mold and other bio-contamination from growing on the moist areas inside the HVAC system. Keeping the cooling coil very clean dramatically reduces mold allergen counts, and prevents biogrowth from clogging up cooling coil fins. Clogged fins insulate and restrict air flow causing the HVAC system to work harder, wasting significant energy.



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



ReFresh™ advanced oxidation utilizes two bands of UVC light and a special photocatalyst. It operates at the molecular level to stop odors and kill germs. It is compact yet powerful, able to treat the air circulating through 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.

Ultravation's exclusive Dual-Band UV Emitter™, a high efficiency germicidal system, produces plasma wavelength energy in the key bandwidths of 185 nanometer(NM) and 254NM. This UV powered system operates on a molecular scale, creating an oxidation process that 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.



Made in USA
All Ultravation air purification products are manufactured in our Vermont facilities. See a manufacturing video and learn more about our products at Ultravation.com



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 and odorless 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!

UVPhotoMAX

Air is constantly re-circulated through the HVAC system.



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. Stopping mold growth inside the HVAC system can be a great help for allergy sufferers!

The **EZ-Light™** saves significant **ENERGY**, because a consistently clean coil works at top efficiency.

On a budget?
UVPhotoMAX is available in an economy model that does not include the UVLampMonitor system and has a shorter, 5 year system warranty (excluding UV lamps).



Outdoor or rooftop HVAC?
The UVPhotoMAX - PT4X is rated for outdoor use, has the EZ-Light option and a five year warranty (excluding UV lamps).



Scan this code with your smart phone for more information.

*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.

The advanced oxidation process is powered by our **Dual-Band UV Emitter™**

and controlled by our patented*** **Photon Clarifier™** an Ultravation exclusive! The exact amount of treatment is adjustable based on living space, temperature, humidity, and other factors.

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

Energy efficiency and power

The state of the art ESP² electronic power supply runs cool and tightly controls the lamp operation 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 to keep UV away from UV sensitive areas, and optional magnet lamp mount.



10-year system warranty (UVLampMonitor equipped models. 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™



Ultravation®
Professional Indoor Air Quality Products
ultravation.com

Did you know?

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
Viruses
Legionella pneumophila
Pollen
Mold spores
Fungi
Ragweed
Dust mites

Sick Building Syndrome
Measles
Tuberculosis
Chicken Pox
Humidifier Fever
Microplasma pneumoniae
Penicillium expensum spores
Cryptococcus

Stachybotrys atra
Neoformans
Mucor ramosissimus spores
Aspergillus niger
Adenovirus
Coxsackievirus
Mycrobacterium kansasii
Mycrobacterium aviumintra

Streptococcus pyogenes
Bacillus anthraci
Corynebacterium diphtheria
Serratia marcescens
Neisseria meningitidis
Moraxella Acinetobacter
Haemophilus influenzae
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
Flooring adhesive
General adhesive
Kitchen cabinets
Caulks & Seals
Detergent
Disinfectants
Cleaning agents
Solvent-based cleaners
Carpet-synthetic fiber
Carpet-wool fiber
Carpet cushion
Carpet system
Cork flooring
Linoleum
Sheet vinyl flooring
Tile vinyl flooring
Wood flooring
Drapery
Office furniture-metal

Office furniture-upholstered
Office furniture-wood
Residential furniture-metal
Furniture-upholstered
Residential furniture-wood
HVAC Systems
HVAC Components
Air cleaning devices
Air moving equipment
Cooling coils
Ductwork
Heating coils
Humidification equipment
Fibrous insulation
Foam insulation
Air cleaner, in-room
Air conditioner, room
Electronic circuit boards
Humidifier, in-room
Photocopier, dry-process

Photocopier, wet-process
Printer, laser
Spirit duplicator
Digital duplicator
Vacuum cleaner
Brick
Ceramic tile
Clothing
Concrete
Microbial culture
Mortar
Animals (pets)
Cooking
Smoking
Paints & Coatings
Oil-based finish
Solvent-based paint
Stain
Turpentine
Varnish

Water-based finish
Water-based paint
Wax
Hair spray
Pesticides
Moth repellent
Space heating and cooking
Ceiling tile
Gypsum board
Plaster
Wall paneling
Wallpaper/wall covering
Particleboard
Plywood
Solid natural wood product
Veneer
Waferboard/chipboard

Ultravation®
Professional Indoor Air Quality Products
ultravation.com

Ultravation: For Total Indoor Air Quality (IAQ) Solutions

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

ProgressiveMedia™ Filtration



It starts with a THIRTY-TWO square foot, hypoallergenic, multilayered 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 a ProgressiveMedia™ air filter 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 hypoallergenic 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

Ultravation®
Professional Indoor Air Quality Products

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