

Intensive Care for Indoor Air™

# Photronic™

Comprehensive Multistage™ Air Purification



**100%**  
Satisfaction  
Guarantee  
(see back panel)

Photronic™ is different. It's the only air purifier that removes **dust, allergens, bacteria, viruses, mold** and hundreds of **odors**—silently in one low maintenance system.

**Sustainability!**  
Have a green home  
with Photronic™  
More inside...



## Ultravation®

Professional Indoor Air Quality Products

[ultravation.com](http://ultravation.com)

## Dedicated to indoor air quality *perfection...*

Studies have confirmed that an unintended result of today's "tighter" homes and increased use of HVAC systems has led to increased indoor air pollution. Now, indoor air pollution levels can rise far beyond outdoor air—even 100 times more polluted!

Ultravation is dedicated to developing new ways to control indoor air contamination. Illness causing microorganism infestation, allergens and bad odors caused by VOCs\* are all problems that can significantly affect the well being and comfort of every member of the household.

We are specialists in manufacturing products that help you effectively manage and optimize indoor air quality, while taking full advantage of all the energy saving "green" benefits you can bring to your home.

Our products are the result of studying the sources and causes of indoor air contamination. They combine proven techniques and new technologies to provide the healthiest air possible—simply and effectively.



*Complete the process of creating the ultimate in home comfort and maximizing energy savings by optimizing air quality... with Ultravation.*

\*VOCs: Volatile Organic Compounds make up hundreds of household odors generated from common activities like cooking, cleaning and home improvement projects and even the family pet.

**Ultravation**<sup>®</sup>  
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# Treat your air for all the major sources of indoor air contamination: Particles, Germs and Odors



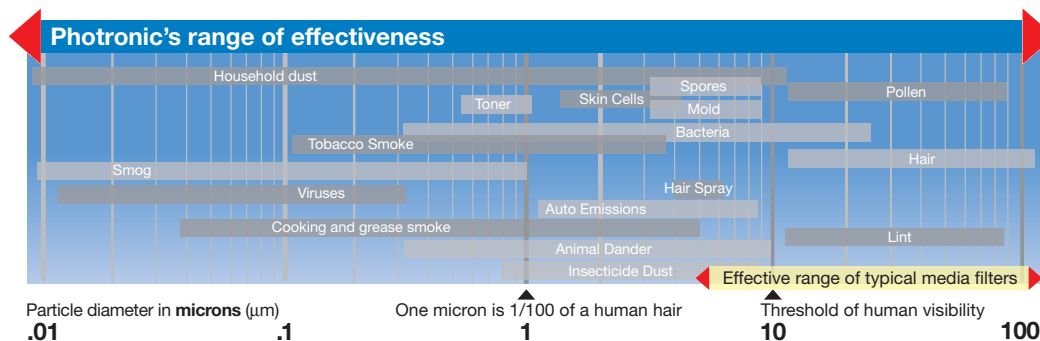
**Photronic™** is much more than an air cleaner, it's a complete air purification system! Beyond capturing airborne dirt, tiny dust particles, mites and allergens, it destroys airborne bacteria, viruses, mold and hundreds of household odors!

It's the only air treatment system you'll need—for healthier, cleaner air throughout your home!

Photronic air treatment installs in your central heating and air conditioning system and greatly expands the "air conditioning" process. It is completely unobtrusive, and it's absolutely *quiet!* It simply does its job during normal HVAC system operation.

## Compare Photronic™ effectiveness

No whole house air cleaning system does more! **Photronic captures more than 99% of pollen; kills mold and airborne bacteria**—even kills viruses so small they can pass right through any household air filter.



## Outperforms "high tech" electronic filters

Photronic™ offers much more, because it is effective against all types of indoor pollution (not just particles!). It neutralizes odors, kills airborne germs, and stops mold and other bio-growth on interior HVAC surfaces. And it does not need the frequent cleaning that electronic filters require.

## It's automatic, easy to use, and requires minimal maintenance!

Photronic™ will deliver years of comprehensively treated air with easy maintenance. Its ProgressiveMedia™ filter can last up to six times longer than typical furnace filters. And it notifies you automatically once a year when your UV-C lamps need to be changed.

Superior Filtration plus Germicidal UV Lights



Traps allergens like mold and pet dander



Kill millions of airborne germs and viruses

Reduce odors from hundreds of sources



Photronic neutralizes fumes from home projects, leftover cooking odors, even pet smells!



### Did you know your air conditioner can be the source of millions of allergy causing mold spores?

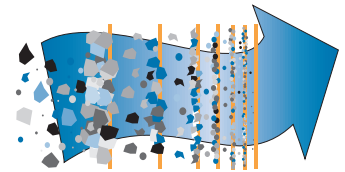
Mold and other biogrowth commonly occurs on the moist areas *inside* an HVAC system. When running, it not only distributes household odors, germs and particles all though the house, *it distributes the new mold and allergens generated inside the system.* This can even interfere with air conditioning efficiency. Photronic™ completely reverses this process by filtering or destroying the airborne contamination passing through the system and by halting biogrowth inside. A Photronic equipped HVAC system cleanses the air instead of distributing—and contributing to—indoor air pollution.

# Why does Photronic™ purify the air better? Because of its Multistage™ air treatment process!

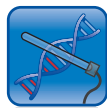


Start by capturing dirt, dust and allergens with high capacity ProgressiveMedia™ filtration system

Enjoy all the benefits of *thirty-two square feet* of MERV 11\* filtration folded into a five-inch compact pleated unit—it's better than 99% efficient on pollen! In this stage, other irritants such as dust mite allergen, are also effectively removed from the airstream. The EPA considers MERV 11 premium performance for residential applications. The filters are made with Ultravation® Ultrastrand™ hypo-allergenic fiber technology to maximize capture and filter efficiency.

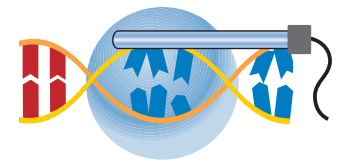


*ProgressiveMedia™ hypo-allergenic filtration captures particles in layers, for more filter capacity and efficiency. Features Ultravation® Ultrastrand™ shaped fibers that capture and hold much smaller particles than typical filters.*

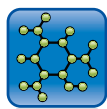


Then, stop mold growth and destroy millions of airborne germs with UltraMAX™ UV lights

Reduce illnesses caused by airborne bacteria and viruses! UV-C equipped Photronic™ models employ Ultravation's UltraMAX™ UV air treatment with the patented\*\*\* **T3™** UV lamp system to kill bacteria and viruses in the air stream. UV light penetrates cells and alters DNA, rendering microbes harmless. Photronic™ UV-C treatment also kills mold and other biological growth on interior surfaces of the heating and ventilation system.

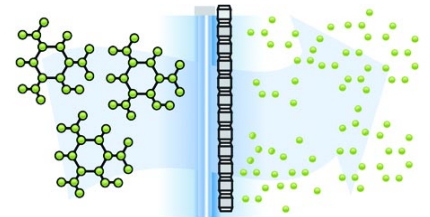


*UltraMAX™ germicidal UV lights kill airborne and surface microorganisms by breaking up their DNA.*



To finish, deodorize the air with ReFresh™ – the photocatalytic odor reduction system

Photronic's ReFresh™ odor reduction process, operates in much the same way as an automotive catalytic converter. The air passing through the ReFresh™ system comes in contact with a UV energized grid that is coated with an exclusive formulation containing titanium dioxide. The grid reacts with hundreds of odors (caused by VOCs\*) and breaks them down into harmless—and odorless—components.



*The ReFresh™ process breaks down hundreds of household odors through UV light powered photocatalytic oxidation.*



Photronic™ for a better outdoor environment, too.

- Photronic keeps HVAC components cleaner, increasing efficiency—saving energy.
- Photronic saves more energy than it consumes! It costs no more to run than economical fluorescent lights.
- Photronic's UltraMAX UV reduces or even eliminates the need for messy and expensive chemical HVAC cleanings.
- UltraMAX UV lamps last up to twice as long as typical UV lamps.

\*Most models. **MERV11:** MERV is *Minimum Efficiency Reporting Value*. It is the industry standard filter performance ratings.

†**VOCs:** Volatile Organic Compounds. These are complex molecules that compose fumes released from many household items and activities—such as cooking, cleaning and painting. Also odors from new carpet, household cleaners, plastics, even dry cleaned laundry (see back of brochure for a partial list of common VOCs).

\*\*\*U.S. Patent Nos. 6,809,326b2 6,838,057b2

# Photronic™ means whole house air purification—manufactured to commercial grade standards!

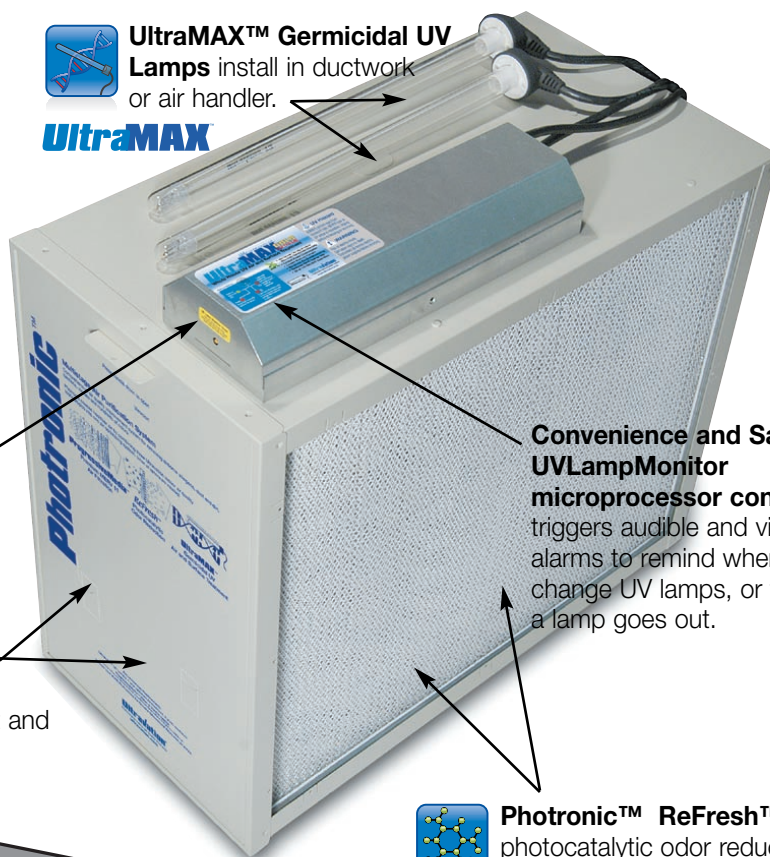
## Photronic™

With ruggedly built cabinets, state of the art electronics and components, Photronic features a 10 year warranty\*\* with 2 year UV lamp life.



**UltraMAX™ Germicidal UV Lamps** install in ductwork or air handler.

**UltraMAX**



### Energy efficiency and power

State of the art **ESP2™** electronic power supply runs cool and controls lamps better, saving energy.



Inside, **32 sq. ft.** (most models) of **Ultravation® MERV 11 ProgressiveMedia™** captures and holds large quantities of dirt and microscopic particles.

### Convenience and Safety—

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



### Photronic™ ReFresh™

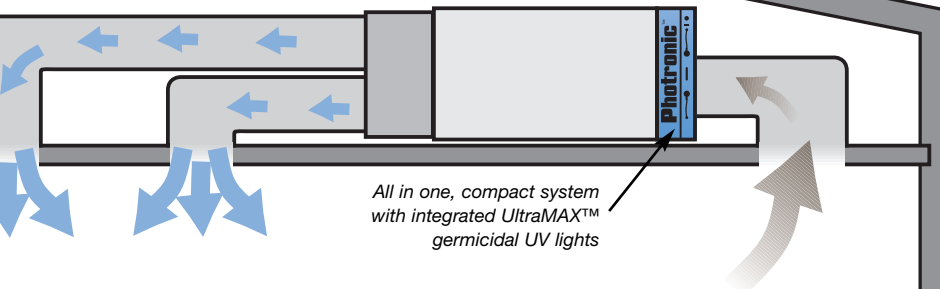
photocatalytic odor reduction grid.

**ReFresh™**

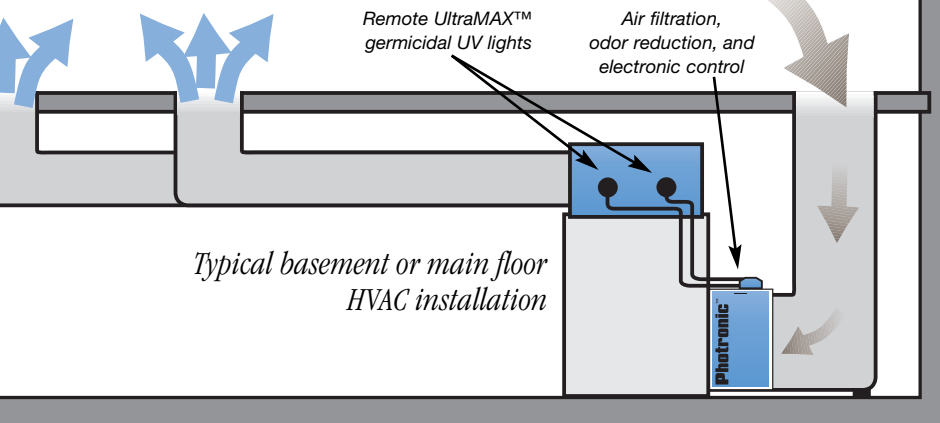


All Ultravation products are designed and built in the USA

*Typical attic HVAC installation*



## Installing Photronic™ in your home



**Ultravation®**

Professional Indoor Air Quality Products

[ultravation.com](http://ultravation.com)



Indoor air as healthy as the great outdoors™

# The Photronic™ 90 Day, 100% Satisfaction Guarantee

Try a Photronic™ system for 90 days. If the air in your home is not cleaner and fresher smelling, your HVAC contractor can return the unit to our wholesale distributor for a full refund.

We cannot refund installation costs, or additional materials that may be required for installation. See 90 day satisfaction guarantee terms sheet for complete details.

## Common household VOC odors

### Common sources of volatile organic compound (VOC) odors

Photronic™ is highly effective at removing air contamination including odors, and accomplishes this with very low air flow resistance or "pressure drop". The entire system adds no more air resistance than a typical media air cleaner, yet it does so much more with its germicidal and odor reducing capability. At right is a partial list of sources of odors that the Photronic Refresh™ module will break down.

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

List source: U.S. Environmental Protection Agency

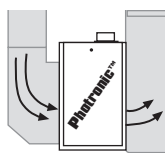
## UV-C destroys microorganisms and provides relief from conditions such as:

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

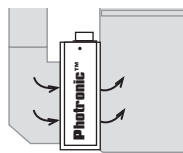


Photronic is installed by HVAC professionals...  
*They will help you choose the right model*

There's a Photronic™ to fit any HVAC system, but there are many systems and configurations across the country. Call your HVAC professional today to find out which system is best. They will also know how to install the system for optimum results. Visit Ultravation.com for more information.



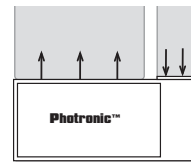
Straight Through



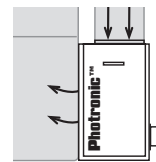
Slimline



Horizontal / Vertical Compact



Support Box



Right Angle

Members:



**Ultravation®**  
Professional Indoor Air Quality Products

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



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