

Intensive Care for Indoor Air™

Photronic™

Comprehensive Multistage™ Whole House Air Purification

*Photronic™ is different. It's the only air purifier that addresses **all** indoor air contamination including **dust, dirt and pollen; bacteria, viruses, and mold allergen plus common household odors**—silently and in one low-maintenance system.*



And... Photronic™ saves energy!



Have a greener home with Photronic™

Learn how inside...

Ultravation®

Better Air | Better Water | Better Living™

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 cleanliness by optimizing your air quality—while saving energy and extending the life of your HVAC system, with Ultravation® **Photronic™**!*

*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.

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Treat your air for all the major sources of indoor air contamination: particles, germs and odors



Photronic™ is more than an air cleaner, it's a complete air purification system!

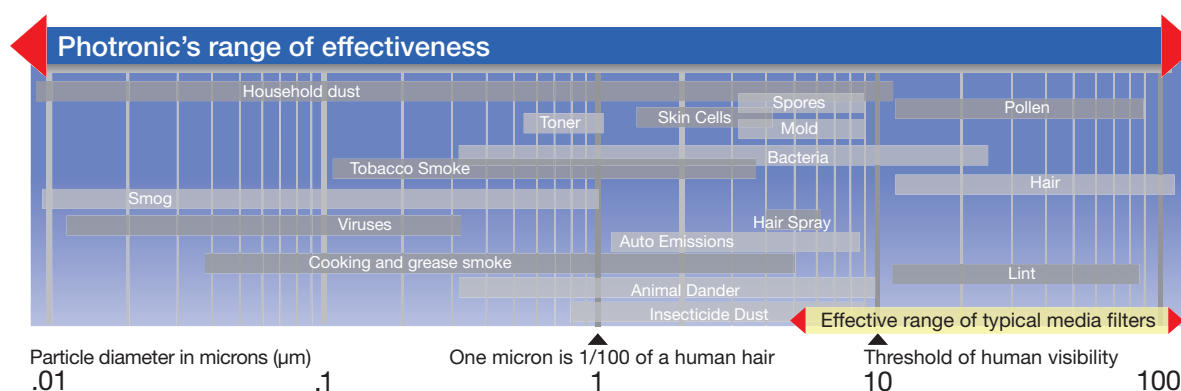
Beyond capturing airborne dirt, tiny dust particles, dustmites and allergens, it kills airborne bacteria, viruses, mold and breaks down hundreds of household odors!

Photronic air purification creates healthier, cleaner and more pleasant air throughout your home!

Photronic air treatment installs in your central heating and air conditioning system and expands the meaning of "air conditioning" *beyond* cooling and heating. Photronic adds a new dimension, improving comfort in terms of healthfulness, cleanliness—even improved energy consumption. It is completely unobtrusive, and it's absolutely *quiet*! It simply does its job during normal HVAC system operation.

Compare Photronic™ effectiveness for reducing allergens and pathogens

Photronic captures more than 99% of pollen; kills mold and other airborne microorganisms including bacteria viruses so small they can pass right through an air filter.



Photronic outperforms electronic filters

Photronic™ offers much more, because it is effective against all types of indoor air pollution. It neutralizes odors, kills airborne germs, and stops allergens. 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 cleaner, more healthful air with easy maintenance. Its ProgressiveMedia™ filter can last up to six times longer than typical furnace filters. And it notifies you automatically when the UV lamp needs to be changed.

Superior filtration with a photocatalytic system to reduce odors and airborne microorganisms



Less dust to breathe in and clean up.



Traps allergens like mold and pet dander.

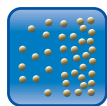


Kills millions of airborne germs and viruses.



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

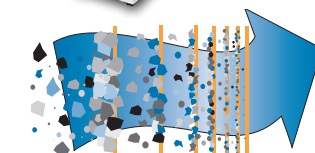
Why is Photronic™ a better air purifier? Because of its Multistage™ air treatment process!



Dirt, dust and allergens are captured in high performance MERV 13 ProgressiveMedia™ air filtration

Nearly 30 square feet of filter capture surface area, are folded into a single, pleated Photronic ProgressiveMedia™ five-inch filter cartridge!*

- 99% efficient on pollen!
- Captures 75% of microscopic particles *just .3 microns in size.*
- Special layered construction provides long life (six-months or more!), high efficiency with low air flow resistance for exceptional dirt holding capacity.
- Ultravation® hypo-allergenic Ultrastrand™ fibers maximize capture and contribute to filter efficiency.



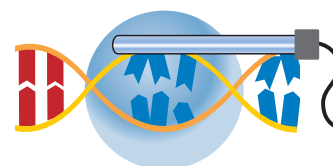
Long-life ProgressiveMedia™
layered, high capacity air cleaning



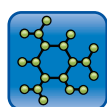
Stop mold growth and destroy millions of airborne germs with UltraMAX™ UV lights

Photronic™ employs Ultravation's UltraMAX™ UV surface and air disinfection featuring the patented*** **T3™** UV lamp system.

- UV-C light kills bacteria and viruses in the air stream and simultaneously halts mold and other biological growth on interior HVAC surfaces.
- UV-C light is highly germicidal yet generates no by-products!

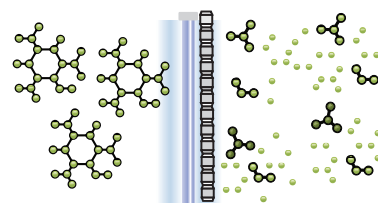


Germicidal UV light disinfects HVAC interiors. Stops mold and other bio-growth on cooling coil and drain pan



Ultravation Refresh™ Photocatalytic Oxidation (PCO) removes household odors as well as airborne bacteria and viruses

- The air passing through the ReFresh™ system comes in contact with a UV energized grid, coated with an exclusive PCO formulation containing titanium dioxide.
- The grid reacts with hundreds of odors (caused by VOCs**) and other organics including microorganisms and breaks them down into harmless and odorless components.

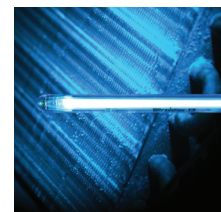


PCO technology breaks down odors into harmless components and destroys organics including bacteria and viruses



Photronic keeps HVAC components much cleaner!
This increases energy efficiency and saves money.

- Photronic UV lights cost no more to run than an economical fluorescent light bulb.
- The increased efficiency of the HVAC system has the potential to save far more energy than the UV lights consume—lowering your home's carbon footprint.



UV light keeps cooling coils clean, bio-growth free and energy efficient

*Models with 5-inch filters. **MERV:** MERV is *Minimum Efficiency Reporting Value*. It is the industry standard filter performance rating system.

****VOCs:** Volatile Organic Compounds. These are complex molecules that are composed of 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™ provides whole house air purification—and is built to meet commercial grade standards!

Photronic™

With ruggedly built cabinets, state-of-the-art electronics and components, Photronic air purifiers feature a *ten-year warranty*. Except UV lamps – see warranty card for complete details.

**10
YEAR
WARRANTY**



**UltraMAX™ Germicidal UV
Lamps** install in the air handler.

UltraMAX™



Energy efficiency and power!

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



Inside, **approx 30 sq. ft** (ST models) of **Ultravation® MERV 13 ProgressiveMedia™** captures and holds large quantities of dirt, dust allergens and microscopic particles.

Convenience and Safety—

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

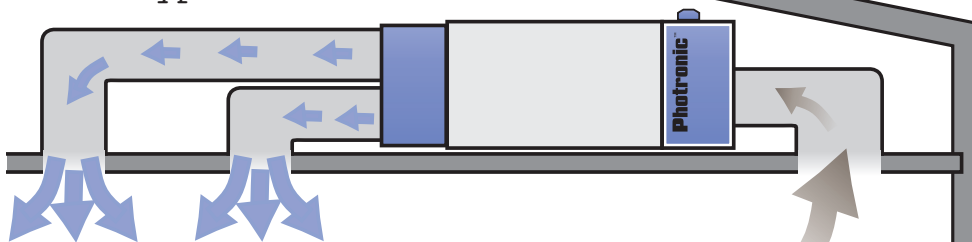


ReFresh™

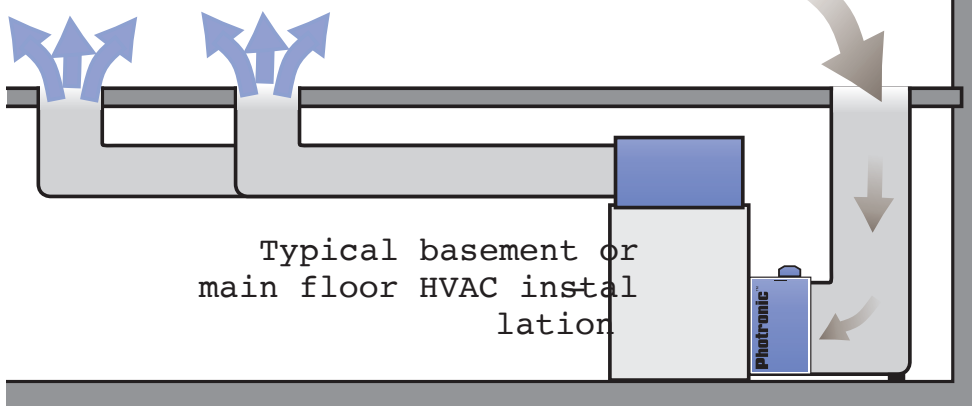
Photronic™ ReFresh™

Photocatalytic Oxidation grid

Typical attic HVAC?in



Installing Photronic™ in your home



Typical basement or
main floor HVAC instal
lation



Made in USA

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

Ultravation®

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Indoor air as healthy as the great outdoors™

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

Photronic helps control airborne microorganisms and allergens

A partial list of microorganisms, allergens and conditions ...

| | | | | | |
|------------------------|------------------------|-----------------------------|---------------------------|--------------------------|------------------------|
| 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 | |

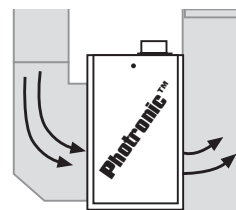
How to buy...

Call your HVAC service company or visit Ultravation.com for a directory of Ultravation Authorized Contractors

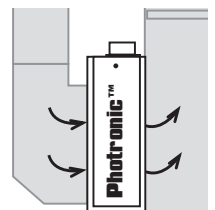


We recommend Photronic installation by HVAC professionals...
They will help you choose the right model

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 for your needs. Your contractor will also know how to install the system for optimum results. Visit Ultravation.com for more information.



ST-Series
Standard system with
5" pleated filter



SST-Series
Slimline system with
1" pleated filter

Members:



Improving Indoor Air Quality
Since 2000

EPA establishment number: 074725-VT-001

Ultravation®

Better Air | Better Water | Better Living™

ultravation.com

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