

# Photronic™

*Intensive care for indoor air™*  
**Allergens • Pollutants • Germs • Odors**



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

*A multistage  
whole house  
air treatment system*

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

**Ultravation®**  
Professional Indoor Air Quality Products

# Indoor air pollution has become an important health issue in recent years

*We specialize in indoor air quality solutions*

Studies have confirmed that indoor air can contain pollution at levels that far exceed outdoor air, even 100 times more polluted! But unlike smog and smoke that visibly reveal outdoor air contamination, much of the pollution that gets concentrated inside your home is microscopic. In addition to pollution from the outside sources being trapped in your home, many pollutants and odors are generated inside the home itself from everyday activities like cooking and cleaning. Illness causing microorganism infestation, allergy irritating dust and pollen, and odors and irritants caused by VOCs\* are all problems that can significantly affect the well being of every member of the household. Today's improved home construction and renovation techniques compound indoor air quality problems, and have created a need for indoor air quality management.

We specialize in manufacturing products that help you effectively manage and optimize indoor air quality. Our products are the result of studying the sources and causes of indoor air contamination, and combining proven techniques and new technologies to reduce it simply and effectively.

**Ultravation® Photronic™ is a comprehensive whole house air purification system, that simultaneously addresses the three major indoor air pollution sources: particulates, odors and airborne microorganisms, including mold. It uniquely combines premium progressive air filtration with UV and Refresh™, our air cleansing system using photocatalytic technologies into a single, simple system that controls odors, mold and other health-impacting biological air contamination.**



*Today's better weather-sealed houses require special attention to indoor air quality.*

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

**Ultravation®**

Professional Indoor Air Quality Products

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

Update your old furnace filter with Photronic™ ... the comprehensive air purifier

# Ultravation® Photronic™

*Intensive care for indoor air™*  
**Allergens • Pollutants • Germs • Odors**

## Make the best choice in a system to optimize the air in your home

Choose Photronic™ ... it's not just an air cleaner, it's a complete air *purification* system! Photronic™ captures dirt, dust and allergens; destroys odors; and kills germs in the air with professional quality performance.

### Photronic™ improves the air throughout your home

It's a high capacity, high efficiency, whole-house air cleaning system that installs and operates through your central heating and air conditioning system.

### Photronic™ installs completely out of the way

Since it becomes an integral part your central heating and air conditioning system, it is unobtrusive. It installs in place of your current media or furnace filter. Available in five configurations to fit any requirement—including doctor recommended true HEPA.

### It's totally quiet!

No added blowers or fans†. It simply does its job during normal heating and cooling of the air. †(Except HEPA models, which employ a unique air diverting installation system, that delivers true HEPA filtration with *no* compromise in system efficiency!)

### Outperforms "high tech" electronic filters

Photronic™ is effective against a wider range of indoor pollution than electronic models, and does not need the frequent cleaning that electronic models require. Unlike electronic filters, Photronic™ neutralizes odors, and kills airborne germs. When equipped with UltraMAX™ UV-C germicidal lamps, airborne germ killing capability is highly expanded, as mold and other growth on interior HVAC surfaces is destroyed.

### Photronic™ keeps your air conditioner from making matters worse!

As air conditioning equipment operates, moisture condenses inside the system, creating areas that are optimum for mold (a very common allergen) and other biological growth. To start with, the system distributes incoming contamination, odors, germs and particles to every corner of your home. That, combined with additional contamination being generated *inside* the HVAC equipment, can cause air quality to suffer tremendously. Even air conditioning efficiency can be affected over time. Photronic™ treats all these problems, including keeping the equipment and ductwork cleaner and more efficient.

UV Lamps install in ductwork or air handler



**Photronic 10 year warranty™**  
Ultravation

\*\*\* see warranty card for complete details

Inside, 32 sq. ft (most models) of Ultravation® MERV11 ProgressiveMedia™ captures and holds months and months worth of dirt and microscopic particles.

Refresh module decomposes odors



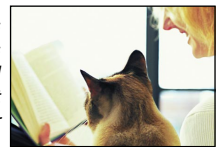
Stops hundreds of everyday odors

Neutralizes fumes from home projects



Kills millions of germs and viruses

Traps allergens like mold and pet dander



Cooking odors are decomposed

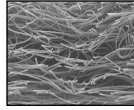
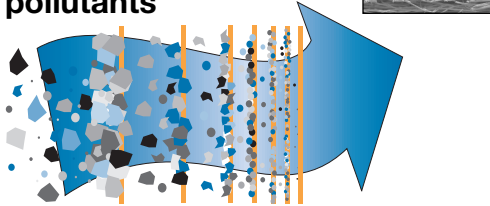
## Very low maintenance!

Photronic™ is designed to deliver years of quality service with low, low maintenance. Its ProgressiveMedia™ filter **can last up to six times longer** than typical furnace filters. Its microprocessor notifies you when UV-C lamps need to be changed... **every two years!**

# Photronic™ is a comprehensive air purification system with commercial quality design

Photronic™ technology treats the three major indoor air pollution sources!

**Capture** Allergens, dust and other pollutants



**ProgressiveMedia™ Filtration:** Thirty-two square feet of Ultravation premium high capacity/high efficiency media is formed into a five inch electrostatically charged, pleated filter. †all 20"x25" models except slimline

Photronic captures **more than 99% of pollen** and many other allergens and particulates. Superior dirt holding capacity, very long filter life and high efficiency air filter gives the filter a long life (up to 6 months).

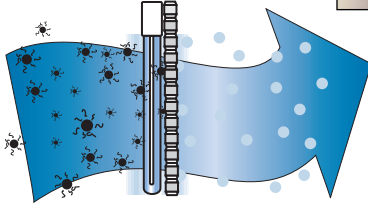
**MERV 11\*\***

Premium Filtration for Residential Indoor Air Quality Systems

Uses Ultravation® Ultrastrand™ Shaped Fiber Technology



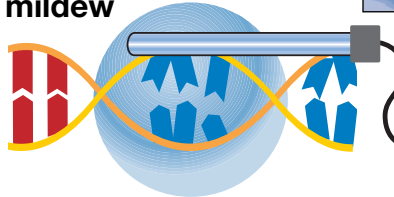
**Decompose** Odors from hundreds of sources



**Refresh™** photocatalytic oxidation system destroys odors by literally decomposing odor molecules

Photronic's Refresh™ odor reduction module, 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 odor reduction module requires no maintenance except UV lamp replacement every two years.

**Destroy** bacteria, viruses, mold and mildew



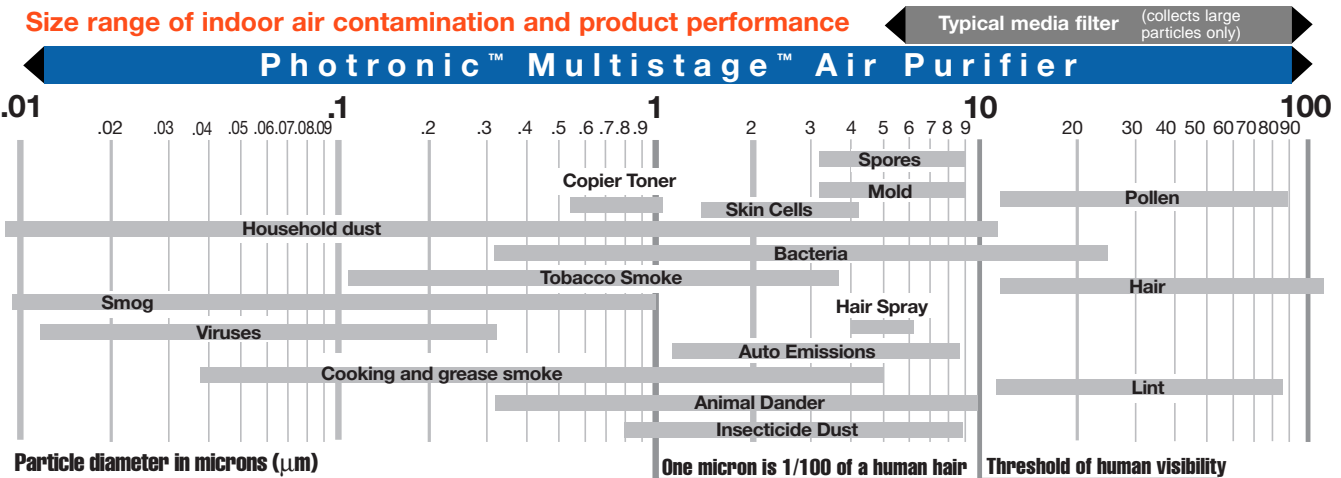
**UltraMAX™** germicidal UV: installs in ductwork to control microorganisms

UV-C equipped Photronic™ models employ Ultravation's UltraMAX™ UV air treatment with 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, eliminating a major source of household mold, a very common allergen.



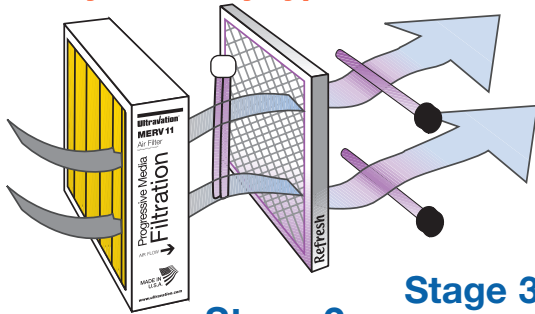
Ultravation® UV-C lamps are electronically monitored. A reminder alarm flashes and beeps when germicidal lamps need replacement. (110-200VAC models)

## Only Photronic™ captures 99% of pollen, while destroying microorganisms and bad odors!



# Photronic™ is a multistage system that fits all applications and system designs

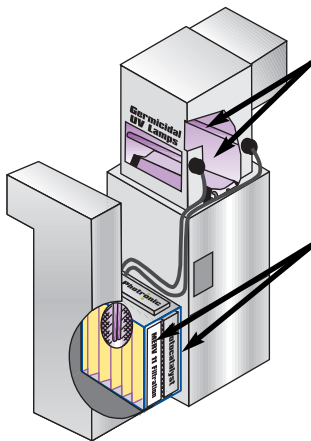
Ready to fit any type of central air conditioning and heating system



**Stage 1**  
High efficiency particle capture

**Stage 2**  
Refresh™  
Air cleansing for odors and biological contamination

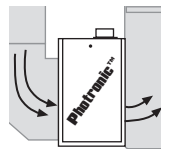
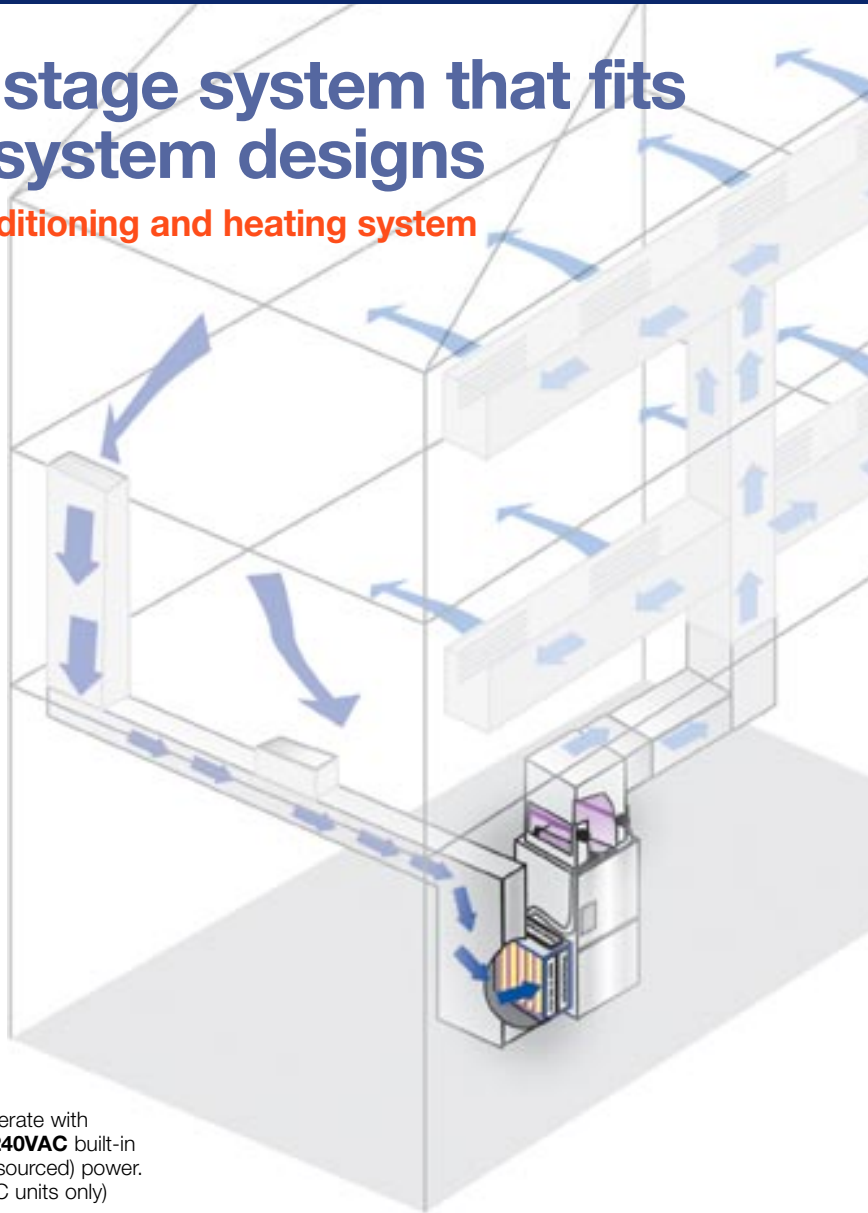
**Stage 3**  
Germicidal treatment directly destroys bacteria, viruses, mold and other allergens



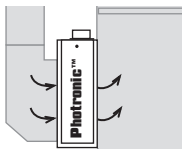
**Stage 3** Germicidal UV-C air disinfection lamps (when equipped) are placed in the air supply after Stage 1 and Stage 2. Consult your HVAC professional for best placement.

**Stage 1** Progressive Filtration and **Stage 2** Refresh™ odor reduction installs in the same location as a traditional furnace filter.

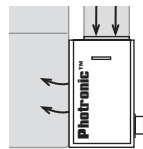
**Power Options:** Available to operate with automatic voltage sensing **120-240VAC** built-in power supply or **24VAC** (HVAC-sourced) power. (UVLampMonitor on 120-240VAC units only)



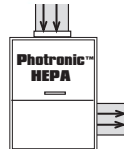
Straight Through



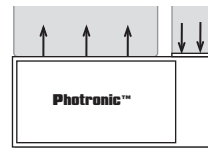
Slimline



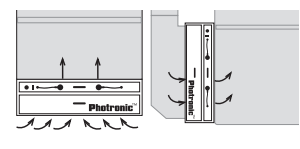
Right Angle



Whole House HEPA



Support Box



Horizontal / Vertical Compact

For more details on available models, see back of brochure

\***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).

\*\***MERV11:** MERV is Minimum Efficiency Reporting Value. Industry standard filter performance ratings. MERV11 is considered premium quality for residential use by the EPA.

Indoor air as healthy as the great outdoors™



**Ultravation®**

Professional Indoor Air Quality Products

ultravation.com

# Photronic Multistage Whole House Air Purification

## Straight-Through Design with 5" ProgressiveMedia™ filter

Includes 5" MERV11 Ultravation® ProgressiveMedia™ pleated filter; Refresh™ photocatalyst odor reduction, and UltraMAX™ remote lamp UV-C air disinfection with 12 ft. cords. Six month typical media filter replacement.

All units are 14" wide. Available in 20"x25", 16"x25", 20"x20", and 16"x20" height and width. Specify 120VAC-240VAC electronic power supply and UVLampMonitor or convenient HVAC powered 24VAC option, with stepping transformer. Specify 2-12" or 2-17" T3™ lamps or non UV-C lamp model.



## Slimline System directly replaces most existing media filters

Includes 1" MERV11 Ultravation® ProgressiveMedia™ pleated filter; Refresh™ photocatalyst odor reduction, UltraMAX™ remote lamp UV-C air disinfection with 12 ft. cords. Six month typical media filter replacement.

All units are 6" wide. Available in 20"x25", 16"x25", 20"x20", and 16"x20" height and width. Specify 120VAC-240VAC electronic power supply and UVLampMonitor or convenient HVAC powered 24VAC option, with stepping transformer. Specify 2-12" or 2-17" T3™ lamps or non UV-C lamp model.



## Space Saving right-angle design

Includes 5" MERV11 Ultravation® ProgressiveMedia™ pleated filter; Refresh™ photocatalyst odor reduction, UltraMAX™ remote lamp UV-C air disinfection with 12 ft. cords. Six month typical media filter replacement.

Units measure 27 1/2" h x 16 1/2" x 25 1/2" d. Adjustable top opening. Side opening is 13 1/2" h x 24" w. Specify 120VAC-240VAC electronic power supply and UVLampMonitor or convenient HVAC powered 24VAC option, with stepping transformer. Specify 2-12" or 2-17" T3™ lamps or non UV-C lamp model.

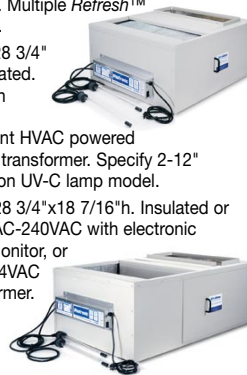


## Support Box style fits underneath heating/air conditioning system

Includes 5" MERV11 ProgressiveMedia™ pleated filter; Refresh™ photocatalyst odor reduction, UltraMAX™ remote lamp UV-C air disinfection with 12 ft. cords. Six month typical media filter replacement. Adjustable return opening and furnace mounting plates. Multiple Refresh™ controller installation options.

Small models units are 32"x28 3/4" x16"h. Insulated or non-insulated. Specify 120VAC-240VAC with electronic power supply and UVLampMonitor, or convenient HVAC powered 24VAC option, with stepping transformer. Specify 2-12" or 2-17" T3™ UV lamps or non UV-C lamp model.

Large models units are 42"x28 3/4"x18 7/16"h. Insulated or non-insulated. Specify 120VAC-240VAC with electronic power supply and UVLampMonitor, or convenient HVAC powered 24VAC option, with stepping transformer. Specify 2-12" or 2-17" T3™ UV lamps or non UV-C lamp model.



## Photronic VHC™ Vertical/Horizontal Compact design fits under air handlers—installs vertically too

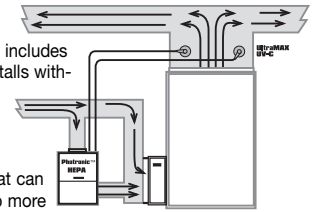
Includes 5" MERV11 ProgressiveMedia™ pleated filter; Refresh™ photocatalyst odor reduction and integrated UltraMAX™ UV-C air and surface treatment.

Add two 12" or 17" remote placement T3™ UV-C lamps as an option. Six month typical media filter life expectancy. Specify 120VAC-240VAC or convenient HVAC powered 24VAC option, with stepping transformer. Two sizes available: 22.5"x26"x11" or 22.5"x22.5"x11" (overall dimensions).



## Odor Reduction, UV-C airborne germicidal action PLUS true HEPA filtration

Photronic is the only HEPA air filtration system to offer odor reduction and germicidal action. The HEPA filter stage is 99.97% efficient on particles as small as 0.3 microns. System includes quiet blower and installs without introducing the air flow restriction normally associated with HEPA. Includes MERV 11 prefilter that can extend HEPA filter to more than 5 years. Refresh™ photocatalyst odor reduction included and remote lamp UV-C air disinfection with 12 ft. cords.



Small (200cfm) models units are 17"x 29"x15 1/2". 8" duct openings. Specify 2-12" or 2-17" T3™ UV lamps or non UV-C lamp model.

Large (650cfm) models units are 19 1/2"x34"x18". 10" duct openings. Specify 2-12" or 2-17" T3™ UV lamps or non UV-C lamp model.



## The Photronic™ 100% Satisfaction 90 Day 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.

For more information visit [ultravation.com](http://ultravation.com), call 866.468.8247 or contact us at [info@ultravation.com](mailto:info@ultravation.com)

## 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, uses 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 effectively 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 panelling
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	

Members:



All Ultravation products are designed and built in the USA

EPA establishment number: 074725-VT-001

**Ultravation®**  
Professional Indoor Air Quality Products