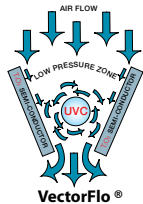


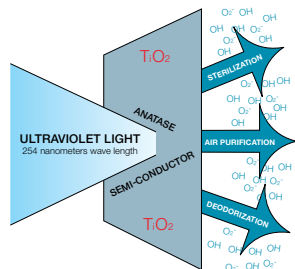


## The **VECTORFlo** PCO2450 Photocatalytic Ultraviolet Air Purifier

The The VectorFlo® PCO2450 (Photocatalytic Oxidation) Air Purifier features the patented VectorFlo® semi-conductor designed to deliver a high performance kill rate unmatched by other ultraviolet air treatment brands. The VectorFlo® significantly increases time exposure of airborne microorganisms circulated in your home's ductwork to the high output UVC germicidal lamp and photocatalytic air purifying process.



A photo chemical reaction occurs when UVC light is absorbed by the photocatalytic Titanium Dioxide Antatase TiO<sub>2</sub> semi-conductor. An advanced oxidation conversion process occurs creating hydroxyl radicals (OH) and super oxide anions (O<sub>2</sub><sup>-</sup>) known to be among the most powerful oxidizing agents for fighting airborne contamination. This photocatalytic oxidation process aggressively deconstructs gaseous contaminants, increases germicidal kill rates and safely eliminates unwanted household odors in the air you breathe at home.



### The VectorFlo® PCO2450

**Air Treatment** by reducing levels of air borne bacteria, fungus, mold, and other infestations.

**Deconstruction** of gaseous contaminants and toxic organic molecules to carbon and water.

**Neutralizing** odors from tobacco, garbage, animals, pet dander, and other volatile organic compounds (VOC)

### Specifications

- 8-1/2" x 7-3/8" x 2" (W x H x D)
- 50 Watt 18 inch UVC Lamp
- 135 µw/cm<sup>2</sup>@ 1 meter UVC Output Potency
- High Output Temperature Compensating (HOTC) 120v / 240v Ballast
- 24 SQFT Titanium Dioxide TiO<sub>2</sub> Anatase Semi-conductor
- Max 2000 CFM or 4000 SQFT
- QuartzCoat® Durability
- Effective Lamp Life 18,000 hours (2 year lamp replacement)
- Power Cord Disconnect (Appliance Coupler Design)
- 5 Year Ballast Warranty

## 2-3 times MORE! Germicidal Output Intensity than other brands

The MicrobeSwatter® MS24 and MS240Z utilizes the contaminant fighting technology of ultraviolet light to dramatically reduce harmful airborne microorganisms circulating through a heating and air conditioning system. The MicrobeSwatter® is 2 to 3 times more powerful than many commonly used ultraviolet light products. This enhanced power provides far greater bio-contaminant destruction and results in significantly improved indoor air quality.

## MICROBESwatter® SweetShot Indoor Air as Fresh as after a Soft Summer Rain!

Everyday the sun's ultra-violet rays battle to protect us from harmful germs, bacteria, and viruses outdoors. The sun also has the power to measure safe levels of ozone to freshen the air we breathe and break down dangerous gaseous contaminants. The MicrobeSwatter® SweetShot MS240Z acts like the sun indoors to bring you the same benefits we experience outdoors. The MicrobeSwatter® SweetShot fused lamp design delivers a safe measured amount of ozone (O<sub>3</sub>). The SweetShot will break down gaseous compounds that create unwanted odors in your heating and air conditioning ducts. The SweetShot will leave your indoor air fresh and clean like after a soft summer rain.

### Featuring Magnetic Strength Mounting for Secure-Convenient Lamp Placement

### Specifications

- Dimensions:**
- Mounting Plate: 3" x 3"
  - UVC H-Lamp 1.75" x 16.25"
  - Duct Mounting Hole: 2"
- Weight:**
- UVC H-Lamp Assembly: 6 oz
- Electrical:**
- 24 VAC, 2 Amp
  - UL Listed Electronic Ballast

- UVC H-Lamp Potency:**
- 36 watt, 105 uw/cm<sup>2</sup> @ 1 meter

- Effective Lamp Life:**
- 9,000 hours

**Transformer NOT included**  
**50 VA Required**  
**Use GeneralAire GA3501**  
**(TR50VA12024)**



Canadian General Filters, Ltd.  
Toronto, Ontario  
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General Filters, Inc.  
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Toll Free (866) 476-5101

# Ultraviolet Air Purification For Your Family's Home



# GENERALAire Lets the Sunshine In!

## Light Wavelengths in Nanometers (nm)

Cosmic Rays		0 nm
Gamma Rays		25 to 50 nm
X-Rays		50 to 100 nm
UW		100 to 200 nm
UVC	Short Wave Band	200 to 280nm
	Medium Wave Band	280 to 315nm
	Long Wave Band	315 to 400nm
UVA		315 to 400nm
Visible Light		400 nm
Infrared		700 nm
Radio Waves		1200nm

All ultraviolet (UV) light is measured in units called nanometers. A nanometer (nm) is a wavelength of light approximately 1/25,000,000 inch or a billionth of a meter. Wavelengths of visible light range from about 400 to 700nm. UV wavelengths range from about 1 to 400nm. The UV wavelength is shorter than visual light and is rendered invisible to the human eye.

## Let the Sunshine In!

The sun that brings us daylight everyday also delivers UVC energy that protects us from germs, bacteria, viruses, and other destructive bioaerosols outdoors. Installed on your HVAC distribution system, the UV Air Purifiers boast an intensely effective 16 inch 36 watt germicidal H-lamp (UW16HC). The 36 watt lamp radiates a high output of germ killing ultraviolet light in your duct work, imitating the air purifying intensity of the sun that treats your indoor air. The germicidal bandwidth C (UVC) measuring 200 to 280 nanometers is effective at killing germs and bacteria in your home and will significantly reduce the levels of harmful bioaerosols (viruses, fungi, mold, and allergens).

## How are Bioaerosols Eliminated?

The high output UVC energy will break down the electron bonds of an organic molecule. This intense energy will penetrate an airborne microorganism causing cellular and genetic damage that either destroys the microorganism or renders it harmless by robbing it with the ability to reproduce.

## What is Super Plasma?

Plasma is an excitation of gas by the energy from ultraviolet light. Wavelengths of ultraviolet light measuring 100 to 200 nanometers bandwidth generate highly reactive triatomic molecules. The aggressive ionized gas has the ability to destroy organic contaminants photochemically by the formation of atomic oxygen, molecular singlet oxygen, activated oxygen, and ozonides (O<sub>3</sub>-). This formation interacts with organic contaminants breaking them down to harmless carbon and water.



## GUV100A83

### UV Air Purifier

#### Does Lamp Output Intensity Matter?

Ultraviolet lamp output intensity is measured in microwatts per square centimeter at 1 meter ( $\mu\text{W}/\text{cm}^2@1 \text{ meter}$ ) from the lamp. The GeneralAire H-lamp is rated at  $180 \mu\text{W}/\text{cm}^2@1 \text{ meter}$  delivering up to 100 times more germicidal output than other brands.

The secret to our powerful intensity rating is achieved by combining a high output 36 watt lamp with a multi voltage regulating electronic ballast. Lamp output matters if you want the best performance for your home. If you want the best, then you can depend on GeneralAire Purifiers.

#### Specifications

- 4" x 8.75" x 2.75" (W x H x D)
- 36 watt, 16" UVC Germicidal H-lamp UW16HC
- $180 \mu\text{W}/\text{cm}^2@1 \text{ meter}$  UVC Output Potency
- 120 VAC / 240 VAC Regulating Electronic Ballast
- QuartzCoat® Durability
- Effective Lamp Life 18,000 hours (2 year lamp replacement)
- Power Cord Disconnect (Appliance Coupler Design)
- Max 2000 CFM or 4500 SQFT
- 5 Year Ballast Warranty



Footnote: The UW5CL lamp is rated to produce 50 milligrams of O<sub>3</sub> at high output and test measures well below F.D.A. regulations of .05 ppm.



## GUV25403A

### Super Plasma UV Air Purifier

#### How does it work in my Home?

The Super Plasma UV Air Purifier applies a 2 step ultraviolet lamp process.



First, you will have peace of mind with effective results destroying germs and bacteria in the air you breathe by the dedicated high output UVC Germicidal H-Lamp. The UVC Germicidal H-Lamp delivers up to 5 times more UVC energy than brands marketed residentially today.

Secondly, The Super Plasma 5 inch broad spectrum ultraviolet lamp oxidizes gaseous contaminants found in the air you breathe at home. The super plasma ozonide output is controlled manually by the patented Oxy-Regulator, Lamp-in-Tube Design. The Oxy-Regulator allows you to set the intensity level of the oxidation process. The oxidation process breaks down airborne gaseous contaminants to deodorize the air you breathe in your home.

#### Specifications

- 4" x 11.75" x 2.75" (W x H x D)
- 36 watt, 16 inch Germicidal H-Lamp UW16HC
- $180 \mu\text{W}/\text{cm}^2@1 \text{ meter}$  UVC Output Potency
- 8 watt, 5 inch Super Plasma Lamp UW5CL
- $12 \mu\text{W}/\text{cm}^2@1 \text{ meter}$  UUV Lamp Intensity Rating
- 120 VAC / 240VAC Regulating Electronic Ballast
- QuartzCoat® Durability
- Effective Lamp Life 18,000 hours (2 year lamp replacement)
- Power Cord Disconnect (Appliance Coupler Design)
- Max 2000 CFM or 4500 SQFT
- 5 Year Ballast Warranty