

Products that let you
breathe
a little easier®

GeneralAire® UV Air Purifier Technology

Light Wavelengths in Nanometers (nm)

Cosmic Rays	0 nm
Gamma Rays	25 to 50 nm
X-Rays	50 to 100 nm
UVV	100 to 200 nm
UVC	200 to 280nm
UVB	280 to 315nm
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 daylight sun delivers UVC energy that protects us from germs, bacteria, viruses, and other destructive bioaerosols outdoors. Installed on your HVAC distribution system, a GeneralAire® UV Air Purifier boasts an intensely effective 16 inch 36 watt germicidal H-lamp (UVV16HC). The 36 watt lamp radiates a high output germ-killing ultraviolet light into your duct work to treat your indoor air, imitating the air purifying intensity of the sun. 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 in your GeneralAire® UVC Air Purifier will break down the electron bonds of an organic molecule. This intense energy penetrates airborne microorganisms, 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 (O₃). This formation interacts with organic contaminants breaking them down to harmless carbon and water, producing cleaner, healthier air.

GeneralAire® UV Air Purifier Accessories



AG2436 Regulating Electric Ballast for MS24 / MS24OZ (GFI #4883)

AGMGF Magnetic Mounting Bracket for MS24 / MS24OZ
For Mounting Unit Inside Duct (GFI #4889)



AGL36 Replacement Lamp for MS24 & MS24OZ (GFI #4886)

LT50 UVC Replacement Lamp for PCO2450 (GFI #4448)

LSK36 Replacement Lamp for GUV25403A & GUV100A83 (GFI #4447)

UVV5CL Replacement Lamp for GUV25403A (GFI #4870).
The UVV5CL lamp is rated to produce 50 milligrams of O₃ at high output and test measures well below F.D.A. regulations of .05 ppm.

Dealer Imprint

- Purchase replacement parts at your local dealer or online: www.parts.generalair.com.
- Visit www.generalair.com (Click on "Literature") to download GeneralAire® brochures, installation & owner's manuals and product guides.
- Watch, Tweet, Follow & Like Us!



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Our Other Brands:



1/2012 GFI / JPF

Subject to change without notice.



Ultra-Violet Air Purification For Your Family's Home



Contaminated
Air

Purified Air!



GeneralAire® UV Air Purifier Models

VECTORFlo® PCO2450 (GFI #4840) Photocatalytic Ultraviolet Air Purifier

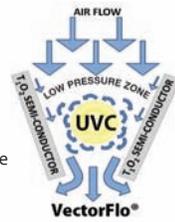
- **Air Treatment** reduces levels of air borne bacteria, fungus, mold, and other infestations.
- **Deconstructs** gaseous contaminants and toxic organic molecules to carbon and water.
- **Neutralizes odors** from tobacco, garbage, animals, pet dander, and other volatile organic compounds (VOC).

The GeneralAire® 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® creates a low pressure zone around a high output UVC germicidal lamp. Airborne germs, bacteria, and gaseous contaminants are slowed in the air stream increasing the exposure time interval where it is introduced to a highly effective photocatalytic air purifying process.

A photo chemical reaction occurs when UVC light is absorbed by the photocatalytic Titanium Dioxide Antatase TiO₂ semiconductor. An advanced oxidation conversion process occurs creating hydroxyl radicals (OH) and super oxide anions (O₂) 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.

GeneralAire® VectorFlo® PCO2450 Specifications

- 8-1/2" W x 7-3/8" H x 2" D
- 50 Watt 18 inch UVC Lamp
- 135 µW/cm²@ 1 meter UVC Output Potency
- High Output Temperature Compensating (HOTC) 120v / 240v Ballast
- 24 SQFT Titanium Dioxide TiO₂ 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



MS24 MICROBEswatter® (GFI #4440) & MS24OZ MICROBEswatter® SweetShot (GFI #4450)

2-3 Times MORE Germicidal Output Intensity Than Other Brands

The GeneralAire® MicrobeSwatter® MS24 and MS24OZ 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.



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 GeneralAire® MicrobeSwatter® SweetShot MS24OZ 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 (O₃). 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.

GeneralAire® MS24OZ & MS24 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

- Featuring Magnetic Strength Mounting for Secure, Convenient Lamp Placement
- Easy installation!

UVC H-Lamp Potency:

- 36 watt, 105 uw/cm²@ 1 meter

Effective Lamp Life:

- 9,000 hours

Transformer NOT included

50 VA Required
Use GeneralAire GA3501 (TR50VA12024)

GUV100A83 (GFI #4142) UV Air Purifier

Does Lamp Output Intensity Matter?

Yes. Ultraviolet lamp output intensity is measured in microwatts per square centimeter at 1 meter (µW/cm²@1 meter) from the lamp. The GeneralAire® H-lamp is rated at 180 µW/cm²@1 meter, delivering up to 100 times more germicidal output than other brands.

We achieve this powerful intensity rating by combining a high output 36 watt lamp with a multi-voltage regulating electronic ballast; the best performance for your home.

GeneralAire® GUV100A83 Specifications

- 4" x 8.75" x 2.75" (W x H x D)
- 36 watt, 16" UVC Germicidal H-lamp UVV16HC
- 180 µW/cm²@1 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



GeneralAire® GUV25403A (GFI #4835) Super Plasma UV Air Purifier

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

1. A high-output UVC Germicidal H-Lamp delivers up to 5 times more UVC energy than today's residential brands to destroy germs & bacteria.
2. The Super Plasma 5" broad spectrum ultraviolet lamp oxidizes gaseous contaminants in your home's air. 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., which breaks down airborne gaseous contaminants to deodorize the air in your home.

GeneralAire® GUV25403A Specifications

- 4" x 11.75" x 2.75" (W x H x D)
- 36 watt, 16 inch Germicidal H-Lamp UVV16HC
- 180 µW/cm²@1 meter UVC Output Potency
- 8 watt, 5 inch Super Plasma Lamp UVV5CL
- 12 µW/cm²@1 meter UVV 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

