

Model GUV25403A

Super Plasma UV Air Purifier



Products that let you
breathe
a little easier

Improve the Air You Breathe

The air we breathe in our homes can be up to 100 times more polluted than outdoor air, according to the Environmental Protection Agency. So let GeneralAire provide you with healthier indoor air and "Let the Sunshine In!" with GeneralAire UVC Air Purifiers.

GeneralAire's Ultraviolet (UV) light technology enables you to have whole-house air treatment energy, like the sun, to improve your homes indoor air quality.

Battle microorganisms with highly intensive ultraviolet "C" (UVC) germicidal irradiation. This air treatment is designed to be more effective at significantly reducing unwanted bioaerosols (germs) in your home. Forget about the rest, and decide on the best indoor air quality air purification system. You can count on GeneralAire ultraviolet air treatment products to out last and out perform the other brands.



GENERALAire
Fresh Indoor Air Quality

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
UWV		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.



How does it work in my Home?



The plasma is produced by its 5 inch pure quartz broad spectrum ultraviolet lamp (UWV5CL). The UWV5CL lamp output is controlled by the patented Oxy-Regulator lamp-in-tube design. The Oxy-Regulator allows you to set the intensity level of oxidation

to breakdown airborne gaseous contaminants and eliminate unwanted odors in your home.

Does Lamp Output Intensity Matter?

Ultraviolet lamp output intensity is measured in microwatts per square centimeter at 1 meter ($\mu\text{W}/\text{cm}^2@1$ meter) from the lamp. The GeneralAire H-lamp is rated at $180 \mu\text{W}/\text{cm}^2@1$ 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.

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Specifications

- 4" x 11.75" x 2.75" (W x H x D)
- 36 watt, 16 inch Germicidal H-Lamp UWV16HC
- $180 \mu\text{W}/\text{cm}^2@1$ meter UVC Output Potency
- 8 watt, 5 inch Super Plasma Lamp UWV5CL
- $12 \mu\text{W}/\text{cm}^2@1$ 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

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 GUV25403A boast an intensely effective 16 inch 36 watt germicidal H-lamp (UWV16HC). 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 (O₃-). This formation interacts with organic contaminants breaking them down to harmless carbon and water.



Footnote:
The UWV5CL lamp is rated to produce 50 milligrams of O₃ at high output and test measures well below F.D.A. regulations of .05 ppm.



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