

# **GUV100A83** *UV Air Purifier*



*Products that let you  
**breathe**  
a little easier*

## **Improve the Air You Breathe**

According to the **Environmental Protection Agency** we spend as much as 90% of our time indoors, and the air we breathe in our homes can be up to 100 times more polluted than outdoor air.

Outside, the sun's UV rays act to purify and rid outdoor air of germs and other harmful bioaerosols. The GeneralAire® GUV100A83 Ultraviolet (UV) light technology provides whole-house air treatment energy, like the sun, to improve your home's indoor air quality.

Battle microorganisms with highly intensive ultraviolet "C" (UVC) germicidal irradiation; air treatment that is designed to be more effective at significantly reducing unwanted bioaerosols (germs) in your home.

So "Let the Sunshine In!" Count on the GeneralAire® 100A83 UV Air Purifier to out last and out perform other brands as it provides you with clean, healthy air.



*Manufacturers of Whole House Indoor Air Quality Products Since 1937:*

• Humidifiers • Dehumidifiers • Air Cleaners • UV Air Purifiers • Heat/Energy Recovery Ventilators

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### 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	Short Wave Band 200 to 280nm
UVB	Medium Wave Band 280 to 315nm
UVA	Long Wave Band 315 to 400nm
Visible Light	400 nm
Infrared	700 nm
Radio Waves	1200nm

**The air we breathe outdoors is purified and controlled naturally by the sun.**

A spectrum or wavelength of Ultraviolet (UV) light blocks the excessive growth of reproductive microorganisms that can cause health problems from the air we breathe.

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 GUV100A83 boasts an intensely effective 16 inch 36 watt germicidal H-lamp (UVV16HC). The 36 watt lamp radiates a high output of germ killing ultraviolet light in your ductwork, 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.



## GUV100A83 UV Air Purifier (GFI #4142)

### Does Lamp Output Intensity Matter?

Lamp output matters if you want the best performance for your home. 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. If you want the best, then depend on GeneralAire® Purifiers.

### Specifications

- 4" x 8.75" x 2.75" (W x H x D)
- 36 watt, 16" UVC Germicidal H-lamp UVV16HC
- $180\ \mu\text{W}/\text{cm}^2@1\text{ meter}$  UVC Output Potency
- 120 VAC / 240 VAC Regulating Electronic Ballast
- Replacement Ballast BL411 (GFI #4885)
- QuartzCoat® Durability
- Effective Lamp Life 18,000 hours (2 year lamp replacement)
- Replacement Lamp: LSK36 (GFI #4447)
- Power Cord Disconnect (Appliance Coupler Design)
- Max 2000 CFM or 4500 SQFT
- 5 Year Ballast Warranty



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