

**IMPROVED PERFORMANCE FOR YOUR CUSTOMERS**

# ***Natural Evolution -***

**A More Powerful Air Purifier  
with Advanced Technologies,  
Endorsed by Authorities,  
Easy to Install, and at the  
Right Price!**

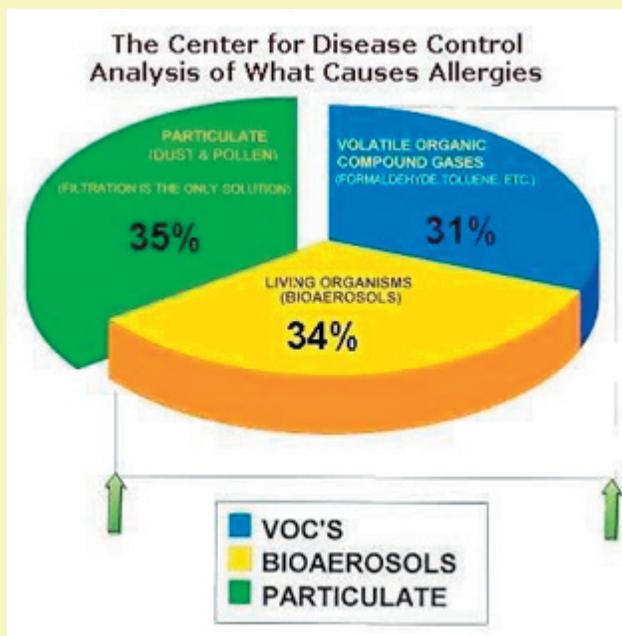


# IAQ PROBLEMS AND THE SOLUTION

## The Air in Homes and Businesses

The EPA has concluded that most of our exposure to toxic chemicals, harmful biologicals and allergens occurs not in the outdoor environments, as we might assume, but in the indoor environment, where we spend over 90% of our time. In a way, this is good news. We have more power over the environment in our homes and businesses than we do on the outdoor environment.

We all know by now that indoor air pollution can be the result of occupational exposures, hobby or recreational chemicals, renovations, mold in damp areas, stored papers, books, and clothing, out-gassing, dust collection and microorganism growth in carpets and furnishings, and from poor building ventilation or contamination. The contaminants from these and other sources are commonly organized into 3 categories - particulate, gases (VOCs), and bioaerosols (bacteria, viruses, and fungi). Surprising to most people is the CDC's analysis as to how these 3 groups contribute to the degradation of our health and in particular, allergies.



Since it appears the three contaminant categories contribute equally to potential health woes, the Solution to IAQ problems must be able to reduce exposure to all three.

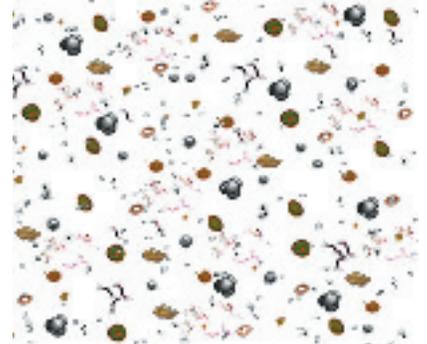
## All Air Purifying Products Work!

### How Well They Work is the Real Question

That's right - all air purifying products work. They all remove harmful things from the air. **How much** they remove and **what** they remove, of course, is the real issue.

Indoor environments present a great challenge. No single purifying method can remove the myriad of contaminants we encounter indoors.

Because air contaminants are constantly being produced, it must be understood that removing contaminants from the air we breathe is not an event, its an ongoing, continual process. Air purification is a 24/7 effort.



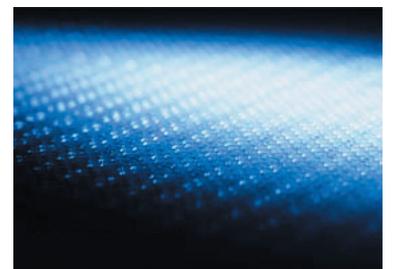
Cleaning the indoor environment is no place for the weak. It takes strong, powerful technologies to do the job. Customers want to know they have products that definitely make their home safer and healthier. Make sure you provide products to your customers that offer the most powerful, advanced, and proven technologies.

## AirGorilla™ Brings You The Power For Big Time Air Purifying

### AN AIR PURIFYING SYSTEM WITH PATENT PENDING TECHNOLOGY AND FAR GREATER DESTRUCTIVE POWER

AirGorilla™ combines the power of two highly regarded contaminant fighting technologies - ultraviolet light and PCO (photocatalytic oxidation).

**But**, while these two methods have been proven to successfully reduce airborne pollutants, AirGorilla™ has developed a way to make them more



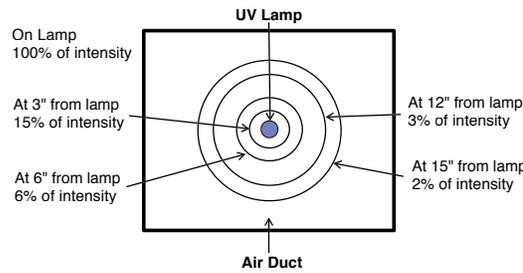
powerful, dramatically improving their performance. The enhanced power provides far greater contaminant destruction that results in **significantly** improved indoor air quality.

# WHY AIRGORILLA™ IS SO POWERFUL

## The Facts About Ultraviolet Light

The power of ultraviolet light (UV) is undeniable. It has been studied since the 1930s. Today, ultraviolet devices have become popular for general indoor air quality improvement, and in particular, are well accepted for installation into HVAC ducts. They can reduce the spread of cold and flu viruses and other airborne contaminants and help fight unpleasant odors. They have been used extensively to fight TB and have been successful in reducing the spread of Legionella.

One of the key factors in determining the effectiveness of ultraviolet light in destroying contaminants is the intensity of the UV rays that hit the contaminant. The higher the intensity - the more effective. Intensity of the UV rays drops off considerably just a short distance from the lamp making it ineffective in destroying contaminants. At just 3" from the lamp, the intensity is reduced by 85%. At just a scant 12" from the lamp, there is not enough intensity to destroy most contaminants. **To stick a puny, single UV lamp in a duct system and think it is going to make a huge difference may be misguided.**



To be really effective, there needs to be greater UV intensity and that requires multiple UV lamps. However, that often means additional installation time and challenges, as well as additional costs.

**AirGorilla's Patent Pending UV/PCO N-Duct™ System** incorporates two 16", Dual-Radiant™ UV lamps, which produce over five times the intensity and over 50% greater area coverage than the typical, single 12" - 15" UV lamp installed in a duct. For example, a typical 12" UV lamp may produce 14 watts of UV power. AirGorilla's unit produces 72 watts of UV power. **That's over Five times the power - five times the kill. It's Powerful Air Purifying.** And, very importantly, it is still a simple installation - cut just one hole.

## Do You Know What The Experts Say About AirGorilla's Purifying Technologies?

### Technology That is Recognized & Approved

**AMERICAN LUNG ASSOCIATION** Photocatalysts for the destruction of indoor air pollutants, including VOCs and gaseous inorganic pollutants such as nitrous oxides, carbon monoxide, and hydrogen cyanide.

### Institute of Environmental Health Monitoring

Titanium dioxide was used to catalyze the photolysis of benzene, xylene, n-heptane, methanol, acetone, ethylether, formaldehyde, trichloroethylene and perchloroethylene in air.



### EPA

PCO has been shown to be an effective technology for treatment of contaminated air

### Journal of Air Waste Management

Photocatalytic oxidation (PCO) of VOCs is a highly attractive alternative technology for purification and deodorization of indoor air.

### Environmental Science Technology

Photocatalytic oxidation over titanium dioxide is a "green" sustainable process

### Science & Global Security

photocatalytic oxidation has the potential to be the basis for a cheap, versatile and very mobile system of destruction of non-transportable chemical warfare agents



PCO appears to be a promising technology for destroying VOCs in indoor air.



### ASHRAE Denver Technical Program

Photocatalytic oxidation for removal of gas-phase contaminants is an emerging IAQ technology. Volatile organic compounds removal at low contaminant levels can be achieved by this approach.



### Defining the Effectiveness of

### UV Lamps Installed in Circulating Air Ductwork

UVGI lamps inactivate bacteria, bacteria spores and fungal spores to a reproducible degree under conditions of fixed dose.

## The Might of AirGorilla's PCO Using Nano-Technology Titanium Dioxide

One thing must be understood - the more titanium dioxide (TiO<sub>2</sub>), the better the photocatalytic oxidation process works. That's why AirGorilla did not put a small TiO<sub>2</sub> cage around a single UV lamp, but instead developed a



patent pending, expanded TiO<sub>2</sub> photocatalytic grid that works in concert with the increased intensity and coverage of the UV lights. This superior photocatalytic system now allows more TiO<sub>2</sub> to become highly reactive when exposed to the increased UV intensity and promotes the destruction of all kinds of contaminants such as airborne bacteria, viruses, spores and harmful gases.

# EASE OF INSTALLATION AND SERVICE



## AirGorilla Powerful Air Purifying

### POWERFUL UV LAMPS WITH PERFECTLY MATCHED POWER MODULE

#### Pure UV Lamps Coupled with Pure Power

All UV lamps are not created equal. Most produce a variety of wavelengths, many of which are not germicidal, meaning they don't kill anything. These commonly used lamps are inferior and waste energy. AirGorilla's™ UV lamps concentrate their energy at the germicidal 254 nanometer range, assuring maximum UV purifying power is available for superior decontamination with no wasted power.

For UV lamps to operate effectively and efficiently, they must be driven with a consistent and optimal amount of power. Too much or too little as well as fluctuations will result in inconsistent purifying and shortened lamp life.

AirGorilla's™ Power Modules provide consistent, optimum power to produce maximum purifying and extended life.

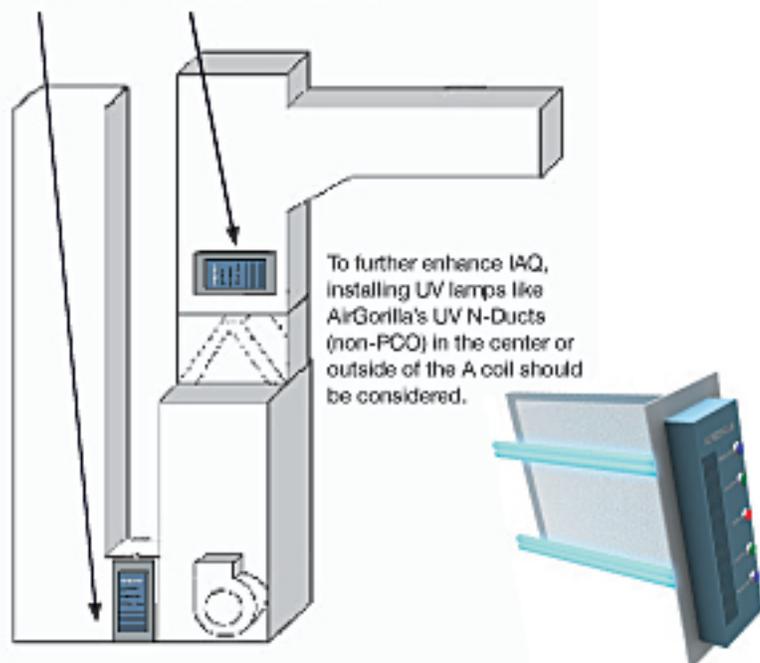


## Easy to Install

AirGorilla's PCO/UV N-Duct™ unit can be installed in any duct at least 16" wide. It is an easy install and can be located in the supply or return plenum and positioned vertically or horizontally. Like installing a single UV lamp, only one cut is needed - a rectangle hole of 3 1/2" x 9" (template provided) - no duct modifications.

PCO/UV N-Duct™ units can be plugged into an AC outlet (option 1); or wired into an AC source so that it is "ON" continually (option 2); or wired directly into your HVAC control panel (option 3) so that it operates when the FAN control on the thermostat is "ON".

**AirGorilla PCO/UV N-Ducts™ can be quickly installed in the supply or return ducts**



To further enhance IAQ, installing UV lamps like AirGorilla's UV N-Ducts (non-PCO) in the center or outside of the A coil should be considered.

## Service is a Snap

Service of AirGorilla PCO/UV N-Duct™ units is easy and minimal. First, the highly effective, nanotechnology titanium dioxide grid automatically cleans and renews itself - it never needs cleaning or changing.

The UV lamps are guaranteed for 9000 hours before they need changing. The *Replace Lamp* monitor light illuminates indicating it is time to change the lamp. Changing the lamp is a snap. Nothing to unscrew or un-install. Simply open the Control Module door, pull the lamp socket off the lamp, remove and replace lamp, reattach socket, close door - in less than a minute, your done.



### AirGorilla Warranty

AirGorilla UV lamps are guaranteed to operate for 9000 hours. All Power Module components are guaranteed for 5 years. Details of warranty can be found at:

[www.airgorillaonline.net/warranty](http://www.airgorillaonline.net/warranty)

### Filtration Manufacturing

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