

# UVCatalyst™

Ultravation® UVCatalyst™ Photocatalytic Air Purifier



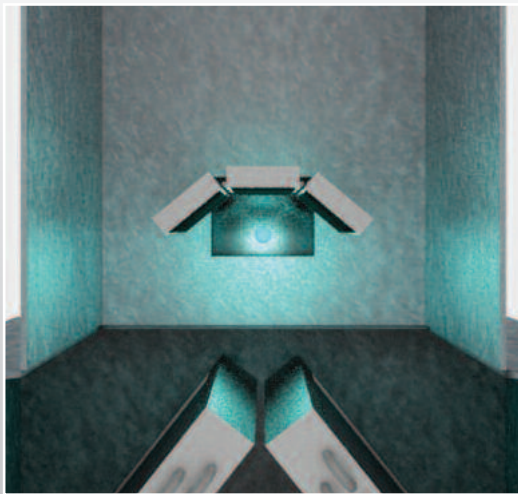
## Purify the air with activated carbon

### Purifies circulating HVAC air

- Freshens indoor air
- Removes odors
- Kills airborne bacteria, viruses and allergens such as microscopic mold
- Decomposes VOCs
- Produces no ozone

**Activated carbon is well known for its ability to adsorb odors, smoke — all types of airborne organics.**

Ultravation designers set out to create a whole house air purifier that would take advantage of the properties of activated carbon, as well as disinfect the air and HVAC surfaces. The result is the **Ultravation® UVCatalyst™, a titanium dioxide infused, activated carbon / photocatalytic air purifier**, that does all of this and more: the system self-cleans so there are no filters to replace, just UV lamp changes at two-year intervals.



Shown fully deployed inside an HVAC plenum, the Ultravation® UVCatalyst™ needs only a 4.5-inch opening for installation.

**Purifies without ozone!**



Proudly Made in USA



Excludes UV lamp

## Ultravation®

Professional Indoor Air Quality Products

[ultravation.com](http://ultravation.com)



Add an entirely new dimension to “conditioning” the air in your home—for healthier air!



Allergy relief especially from mold



Cooking smells are reduced quickly



Get control of pet odors



Disinfects the air for fewer colds and illnesses

# UVCatalyst™

UVCatalyst™ is a whole house air purifier that uses activated carbon, photocatalytic oxidation (PCO), and ultraviolet light to remove odors and kill millions of airborne bacteria, viruses and mold.

- **An air purifier that goes beyond filtration**

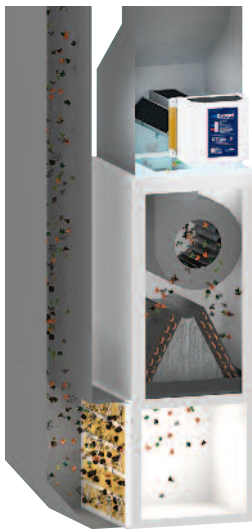
Odors, smoke, germs, mold and all types of volatile organic compounds, or VOCs, are all a type of air contamination the majority of which are far too small to be captured in an air filter. UVCatalyst uses activated carbon to capture these minute objects and break them down at the molecular level. These include common household odors from pets, foods, cooking, garbage, paint, cleaning agents, musty damp areas—even bathroom and diaper smells! As various odors are created they are drawn into the HVAC system and processed by the UVCatalyst, which works silently in the background to keep your air fresh and clean.

- **Clears the air for the whole house**

The UVCatalyst™ air purifier uses three panels of activated carbon cells, providing three times more air purifying power than typical PCO air purifiers for truly whole house effectiveness. UVCatalyst installs out of the way in HVAC ductwork and uses a combination of germicidal UV light, activated carbon capture, and catalytic processing to freshen all the air flowing through your home. UV is a well known disinfectant, used since the 1930s in hospitals, doctors offices, pharmacy and food industries as well as in water treatment. It simply inactivates microscopic organisms, rendering them harmless.

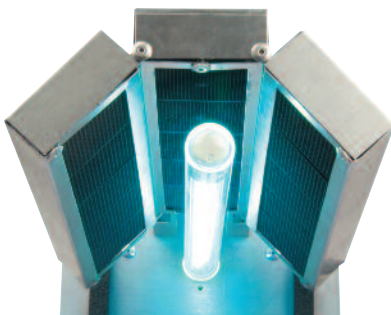
- **Best protection in the industry**

With three state-of-the-art activated carbon filters that fold out inside your HVAC duct work (or plenum) you can rest assured that the UVCatalyst's high surface area is achieving maximum capture. Each filter is infused with titanium dioxide (TiO<sub>2</sub>). This makes the UVCatalyst™ self-cleaning because TiO<sub>2</sub> photocatalytic properties breakdown the captured contamination, continually renewing the activated carbon.



*Most odors, bacteria, viruses and mold pass through air filters. UVCatalyst adsorbs and breaks down VOC odors, kills germs, and oxidizes allergens passing through your HVAC system.*

(HVAC system illustration above is not to scale  
Air contamination enlarged for demonstration)



*UVCatalyst has three times more power than others to control germs and odors—  
A true whole-house PCO air purifier!*



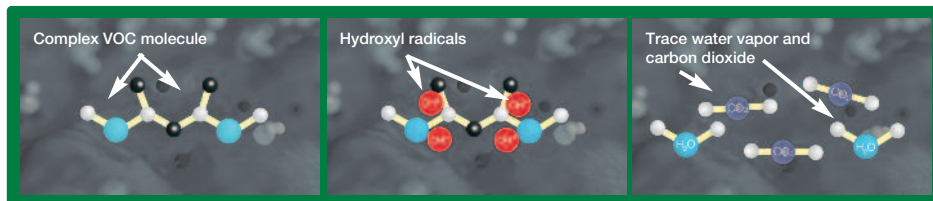
# Ultravation utilizes the science of nanotechnology to create healthier indoor air for your home



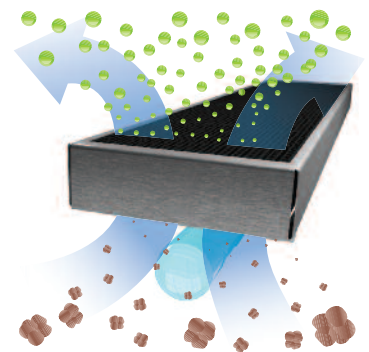
*UVCatalyst™ is ideal for whole house odor reduction and air disinfection to combat airborne bacteria, viruses and mold!*

*It's ideal because it works on a molecular scale without adding anything to the air, such as perfumes or ozone. Its three panels of activated carbon cells provide the air purifying power for whole house effectiveness, and it installs out of the way in HVAC ductwork.*

## UVCatalyst™ uses nanotechnology to purify the air!



The contamination is transformed into simplified molecules (mostly trace amounts of water vapor and CO<sub>2</sub>)



Odors, bacteria, viruses and other complex airborne contamination are drawn through the activated carbon modules

**What is a VOC?**  
VOCs are Volatile Organic Compounds. They make up hundreds of household odors that are generated from common activities like cooking, cleaning and home improvement projects.

A common component of indoor air contamination is the Volatile Organic Compound (VOC). VOCs are the molecules that make up the unpleasant odors we smell from cooking, pets, cleaning, garbage, bathrooms, musty basements—even new carpet and other construction projects.

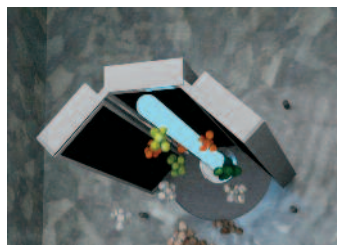
Hydroxyl radicals are very short-lived charged ions created by TiO<sub>2</sub> and UV light. The ions combine with the contamination and break it up within the UVCatalyst carbon cell. The ions dissipate as they do their job breaking up air contamination.

The remaining components combine to form simplified molecules, mostly water vapor and CO<sub>2</sub> and the air you breathe not only smells great, it is healthier to breathe.

## UVCatalyst™ installs into your HVAC system for whole house effectiveness!

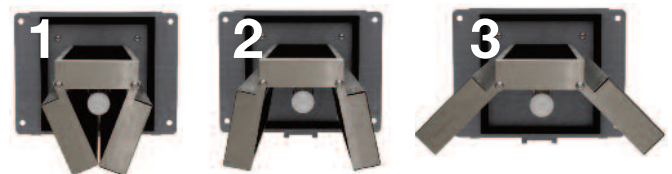


Folded, the UVCatalyst installs with just a **4.5-inch opening in HVAC ductwork.**



Once installed, the UVCatalyst expands to capture **3X** more contamination than other systems on the market.

### UVCat3X Expanding PCO Air Purification Module



### Made in USA

Ultravation UVCatalyst purifiers are manufactured in USA. See a manufacturing video and learn more about our products at Ultravation.com



# Ultravation®

Professional Indoor Air Quality Products

[ultravation.com](http://ultravation.com)

# Uniquely effective, commercial grade construction, smart features and options

## Environmentally Friendly

UV leaves no by-products and uses no chemicals. It is a component of sunlight—nature's way of controlling airborne microorganisms.



## Energy saving option! EZ-Light 6P™



Connect the optional **EZ-Light 6P™** remote UV lamp to your UVCatalyst to prevent mold (a major allergen) from growing on the moist HVAC coil, drain pan and other surfaces. A mold free HVAC interior will increase the system's energy efficiency and keep the HVAC system from generating and spreading mold allergen throughout your home. The lamp is specially made to be powered directly by the UVCatalyst™ base unit.

• Durable White Finish • Modular Design

• Generates No Ozone



**UVCat3X Expanding PCO Air Purification Module**

Model UVCAT1224

## Powerful yet efficient

The state of the art electronic power supply runs cool and optimizes lamp operation for energy and air treatment efficiency.



## Viewport

The blue glow from the Viewport safely tells you that the UV lamp inside the UVCatalyst is operating.



10-Year System Warranty  
(Excludes UV lamp)



Member



We recommend installation by an HVAC professional



UVCatalyst™ is a comprehensive system that will offer best performance when installed by an indoor air quality expert, who can help you evaluate your home's IAQ needs, your particular HVAC system, find the best location for the equipment and adjust it for peak performance. **Need to find a contractor?** Find one by visiting us at Ultravation.com



Made in USA

Indoor air as healthy as the great outdoors™



**Ultravation®**  
Professional Indoor Air Quality Products  
ultravation.com