



Listed below are some **common odors, chemical pollutants and biological contaminants** that are destroyed by the Sanuvox Ultraviolet Air Purifier.

Acetone	Fecal Odors	Nicotine
Aged Manuscripts	Fertilizer	Noxious Gases
Air Wick	Film Processing Odors	Odorants
Alcoholic Beverages	Fish	Onions
Animal Odors	Floral Scents	Organic Chemicals
Anesthetics	Formaldehyde	Packing House Odors
Asphalt Fumes	Fuel Gases	Paint
Automobile Exhaust	Fumes	Paste & Glue
Bacteria	Gangrene	Perfumes, Cosmetics
Bathroom Smells	Garlic	Perspiration
Body Odors	Gasoline	Pet Odors
Burned Flesh	Hair Spray	Pitch
Burned Food	Hospital Odors	Plastics
Burned Fat	Household Smells	Popcorn & Candy
Cancer Odor	Incomplete Combustion	Poultry Odors
Charred Materials	Industrial Wastes	Rubber
Cheese Kitchen	Kerosene	Sewer Odors
Cigarette Smoke	Lactic Acid	Smoke
Citrus and other fruits	Lingering Odors	Spoiled Food
Coal Smoke	Liquid Fuels	Tar
Combustion Odors	Liquor Odors	Tarnishing Gases
Cooking Odors	Lubricating Oils/Grease	Theatrical Makeup Odor
Creosote	Lysol	Tobacco Smoke
Dead Animals	Masking Agents	Toilet Odors
Decaying Substances	Medicinal Odors	Turpentine
Decomposition Odors	Melons	Vapors
Deodorants	Methyl Alcohol	Varnish Fumes
Diesel Fumes	Mildew	Vinegar
Embalming Odors	Mixed Odors	Viruses
Ethyl Alcohol	Mold	Volatile Materials
Essential Oils	Moth Balls	Waste Products
Eucalyptol	Nail Polish	Waterproof Comp
Exhaust Fumes	Naphtha (Coal tar)	Wood Alcohol
Fabric Finishes	Naphtha (Petroleum)	Xylene

Common Micro-organisms

Bacteria	Viruses	Mold Spores
Protozoa	Tuberculosis bacilli	lengioncellosis
Measles	Influenza	Bacillus anthracis
S. enteritidis	B. paratyphosus	B. subtilis
Eberthella typhosa	Escherichia coli	Micrococcus candidus
Meisseria catarrhalis	Proteus vulgaris	S. typhimurium
Sarcina lutea	Dysentery bacilli	Staphylococcus aureus

WHAT IS THE DIFFERENCE BETWEEN A SANUVOX AIR PURIFIER AND AN AIR FILTER?

An air filter is designed to collect particulate from the air (i.e. dust and dirt). Contaminants such as mold, bacteria, viruses, VOC's, chemicals and odors pass through a filter like sand passes through a tennis racket. Sanuvox Air Purifiers are designed to change the molecular structure of the contaminants through DNA Sterilization and Photo-Oxidation destroying both biological and chemical contaminants, including odors.



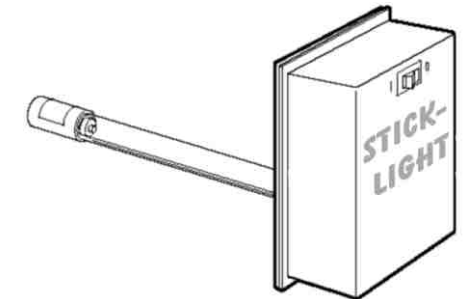
HOW ARE SANUVOX IN-DUCT UV AIR PURIFIERS DIFFERENT THAN CONVENTIONAL 'STICK-LIGHT' UV PURIFIERS?

One, two, or three lamp 'Stick-Light' purifiers are excellent Object Purifiers, but do very little for treating the moving air in the ductwork. UV Air Purifiers are installed with the hopes of treating the air, destroying bacteria, viruses, mold, chemicals and odors, to improve the air quality. "Stick-Light" Purifiers will only keep a stationary object clean from biological contaminants but do very little for the air quality in the building.

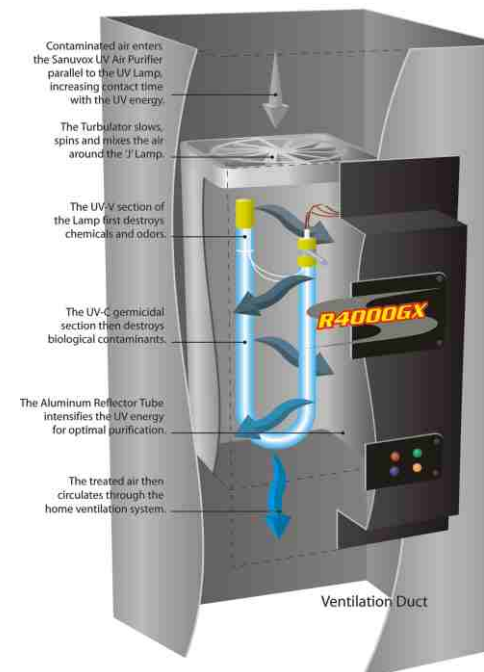
The proprietary Sanuvox Processes used in Sanuvox UV Air Purifiers are designed to treat the moving air in the ventilation system. There are only thousandths of a second to deliver the sufficient UV dosage needed to destroy the bio-chemical contaminants in the air stream. The Sanuvox Process can effectively destroy the contaminants that travel throughout the ventilation system.

"Stick Light" purifiers are excellent Object Purifiers because the object is not moving; the UV Light can shine on the object indefinitely, 24 hours a day, 7 days a week. An example of Object Purification is treating the a/c coil.

Caution: UV destroys plastic. A 'Stick-Light' installed over a coil with a plastic drain-pan or plastic lined ducts must have all plastics shielded to prevent failure and off gassing (solid plastic partially being changed to a gas). An R1700GX and R4000GX do not have this problem, as the UV is contained in the Reflector Tube.



IF THE ALUMINUM REFLECTOR TUBE IS 6 INCHES SQUARE, HOW CAN IT PURIFY THE AIR IN THE DUCT? WHAT ABOUT THE AIR THAT IS NOT PASSING THROUGH THE ALUMINUM REFLECTOR TUBE?



A common misconception is that a UV Lamp installed in a duct will treat ALL the air passing by it. In fact, at just 2 inches from the surface of the glass of the Lamp, the UV efficiency drops more than 80%, and the decline is exponential. This is true for all types of UV lamps; this is a fundamental principal of UVC light.

When an Object Purifier (Stick-Light) is installed PERPENDICULAR to the air stream, the air spends very little contact time with the UV Energy. When a UV Air Purifier (Sanuvox R1700GX & R4000GX) is installed, the Lamp is PARALLEL to the air stream. By having the Lamp PARALLEL in the ductwork, it allows for the contaminants in the air to spend 2,400% MORE CONTACT TIME with the UV Energy. With more contact time, more UV is delivered to the contaminants, resulting in a much higher kill.

The Purifiers are designed to be on when the ventilation fan is on. As the air CONTINUALLY CIRCULATES through the ventilation system, Sanuvox Air Purifiers will continually bring the level of contamination down. With every pass, more and more contaminants in the air are destroyed. In a typical application, in approximately 2 hours, the Sanuvox Purifier will on average have treated in excess of 80% of the contaminants in the air. If the Aluminum Reflector Tube were not present on the Sanuvox purifier, it would be similar to using a flashlight or car's headlight without a reflector, the same is true for the UV Air Purifier, reflection is needed to intensify and direct the UV energy.

HOW DOES ULTRAVIOLET LIGHT KILL BIOLOGICAL AND CHEMICAL CONTAMINANTS?

Sanuvox uses a proprietary "J" Lamp that produces UVC and UVV light (both wavelengths are fused into the Lamp). UV-C is short-wave radiation; it attacks the DNA of the cell. This wavelength's primary uses are for the destruction of bacteria, viruses, mold and other microorganisms that pass through the Aluminum Reflector Tube. The Centers for Disease Control recommends this method for destroying viruses such as tuberculosis. UV-V is primarily used for oxidization; this is the portion of the lamp that will destroy chemicals and odors such as cigarette smoke, VOC's, diesel fumes and formaldehyde.

IS SANUVOX EFFECTIVE IN TREATING MOLD?

Sanuvox has both Air Purifiers and Object Purifiers that will destroy mold as well as hundreds of other microbial contaminants.

IS THE SANUVOX AIR PURIFIER SAFE?



Sanuvox Air Purifier are CSA C/US certified and CE approved. Two factors relating to safety are: (1) exposure to UV rays is damaging to the eyes and (2) direct UV exposure destroys plastic.

HOW MUCH ELECTRICITY DOES A SANUVOX PURIFIER CONSUME?

Electrical consumption varies according to residential models. Purifiers range from 15 watts to 85 watts.

DOES SANUVOX UV AIR PURIFIERS PRODUCE OZONE?

As part of the proprietary Sanuvox process involved in UV air treatment, the UVV (187 nm) portion of the lamp is fused to the UVC (254 nm) portion of the glass. Sanuvox Lamps are not ozone generators; ozone is a bi-product of oxidation. As the oxidation is emitted from the UVV portion of the Lamp, the UVC wavelength immediately starts to break down residual ozone that may be present. Sanuvox is treating the chemical contaminants in the air at that moment in time; this is one of the components of the Sanuvox U.S. patent. The amount of residual ozone produced by a Sanuvox UV Air Purifier with the UVC/UVV 'J' lamp has been measured by independent accredited testing laboratories and found not to exceed 0.0035 parts per million at the outlet of the purifier. This is less than 1/10 of the ASHRAE limit (0.05 ppm) and less than 1/20th of the OSHA (0.10 ppm) standards for safe ozone levels. In fact, the UV process produces less residual ozone than a photocopier or the arcing from an electronic air cleaner, and in documented air quality tests, zero ozone levels have been found in the living or working area.

* All Sanuvox products are available as a G = Germicidal UVC only or GX = Germicidal UVC & Oxidation UVV

WHAT ARE THE APPLICATIONS AND USES FOR SANUVOX UV AIR PURIFIERS?

Sanuvox Air Purifiers will destroy biological, chemical contaminants and odors such as bacteria, viruses, mold, mildew, smoke, formaldehyde, cleaning solvents, etc. See back page for a partial list of contaminants treated by Sanuvox. Sanuvox Purifiers are used in thousands of homes, doctors and dentists offices, hospitals, veterinary clinics, office buildings, government facilities, railway stations, health clubs, day care centers, laboratories, class rooms, old age homes, hotels, smoking rooms, bars and restaurants, mausoleums, funeral parlors and morgues.

IS A SANUVOX PURIFIER DIFFICULT TO INSTALL?

There are several Sanuvox models, from portable units, which only have to be plugged in, to in-duct units, which require installation. We recommend installation to be done by a qualified HVAC Technician.

DOES A SANUVOX HAVE TO RUN 24 HOURS A DAY?

In-Duct models are designed to run 24 hours a day. That is not to say that they will. In-duct models have either a sensor (R4000GX) or are hardwired (R1700GX) to the home's ventilation system, which means the purifier will only run when the fan is on. The portable purifier (P800GX) can be used all day or when the need arises.

WHAT MAINTENANCE IS REQUIRED?

Besides the changing of the lamp, no other maintenance is required for a Sanuvox Ultraviolet Air Purifier (R1700GX, R4000GX & P800GX). Sanuvox Saber APR requires periodic cleaning of the Lamp depending on where it is installed.

IF A 'STICK-LIGHT' HAS A (1) ONE-YEAR LAMP WARRANTY, HOW CAN THE SABER APR HAVE A (3) THREE-YEAR WARRANTY?

Even though the Saber APR is an 'Object Purifier', like all other Sanuvox Purifiers, the Saber APR uses a Reflector to intensify and direct UV that would otherwise be lost.

WHAT IS MY WARRANTY?

Sanuvox residential air purifiers are warranted for 3 years on parts including the UV Lamp (and all replacement Lamps).



Residential Line

Sanuvox Ultraviolet Air Purification

PERFORMANCE / KILL RATE / EFFICIENCY



R1500X AIR PURIFIER

- In-Duct installation
- Up to 1,500 square feet
- 15 watts
- Self Cleaning, Maintenance free
- 3 year warranty incl. Lamp



R1700GX AIR PURIFIER

- In-Duct installation
- Up to 1,700 square feet
- 27 watts
- Self Cleaning, Maintenance free
- 3 year warranty incl. Lamp



R3500X AIR PURIFIER

- In-Duct installation
- Up to 3,500 square feet
- 25 watts
- Self Cleaning, Maintenance free
- 3 year warranty incl. Lamp



R4000GX AIR PURIFIER

- In-Duct installation
- Up to 4,000 square feet
- 37 watts
- Self Cleaning, Maintenance free
- 3 year warranty incl. Lamp



P800GX AIR PURIFIER

- Portable
- Up to 800 square feet
- 85 watts
- Self Cleaning, Maintenance free
- 3 year warranty incl. Lamp



HFX HEPA FILTER /UV AIR PURIFIER

- Pre-Filter & True HEPA Filtration
- Sanuvox Patented UV process
- By-Pass System or Stand-Alone
- 3 year warranty incl. Lamp



UV Bio-Wall QUATTRO AIR PURIFIER

- In-Duct installation
- For severe applications
- Treats the entire duct at one time
- 3 year warranty incl. Lamps

SABER APR OBJECT CLEANER

- Basks surfaces with direct & reflected UV-C, destroying & preventing mold growth
- Adjustable Parabolic Reflector
- Available 12" & 18" Lamps
- 3 year warranty incl. Lamp

PERFORMANCE / KILL RATE / EFFICIENCY