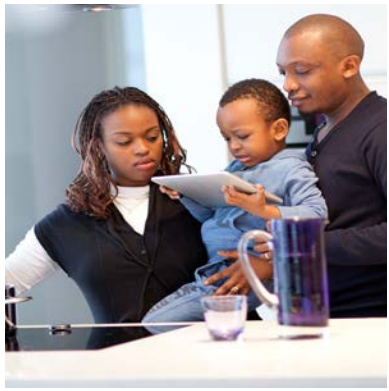
SANUVOX

Indoor Air Quality Comfort Systems

WHY SANUVOX

Why do you need an air treatment system?

We seal our homes and buildings tightly to save energy; to not spend money and natural resources heating and cooling air, only to let it escape outside. A major downside to this is not being able to bring in enough fresh outside air to lower the concentrations of biological & chemical contaminants within the home. These airborne contaminants include viruses, bacteria, mold, chemicals, VOCs, fumes and odors.



As a result of implementing these important energy saving measures, the concentrations of airborne contaminants continually rise in the home. According to the EPA, "indoor levels of pollutants inside the home may be up to 100 times higher than outdoor levels" and these contaminants continually circulate throughout the home's ventilation system.

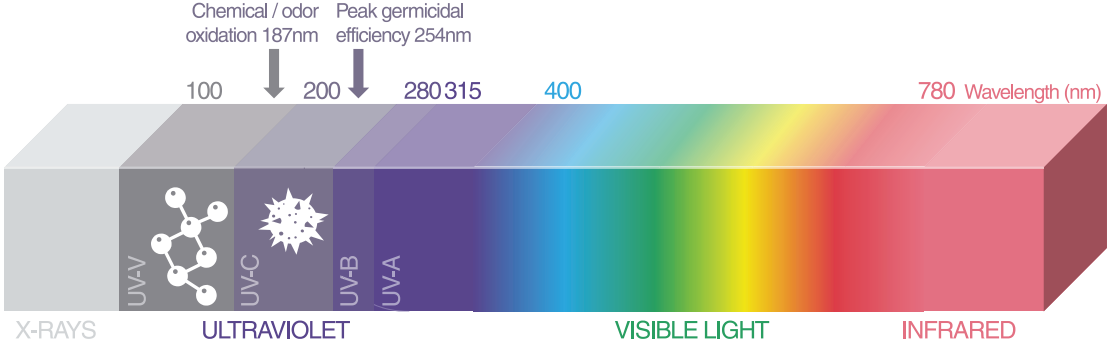
A filter is not an air purifier

Many of us use filters in our home's ventilation system to remove harmful particulates from the air. Biological and chemical contaminants such as mold, bacteria, viruses, allergens, cooking and pet odors, cigarette smoke, and a host of other airborne pollutants are so small that they pass through even the highest efficiency filters like sand through a tennis racket.

With tons of pollution introduced into our atmosphere every day, how is it we can step outside and breathe in fresh air? The answer may surprise you... It's because of the Sun.

The Sun & UV Rays

The Sun delivers specific UV wavelengths that destroy and deactivate biological and chemical contaminants that are introduced into the atmosphere. Just like the Sun's UVC and UVV rays, Sanuvox UV Systems produce the exact same UV wavelengths, bringing the same natural process into homes and buildings. In-Duct Sanuvox UV Air Purification Systems continuously destroy the bio-chemical contaminants as they circulate through the home, resulting in a true whole-home air treatment system.



THE SANUVOX PATENTED PROCESS

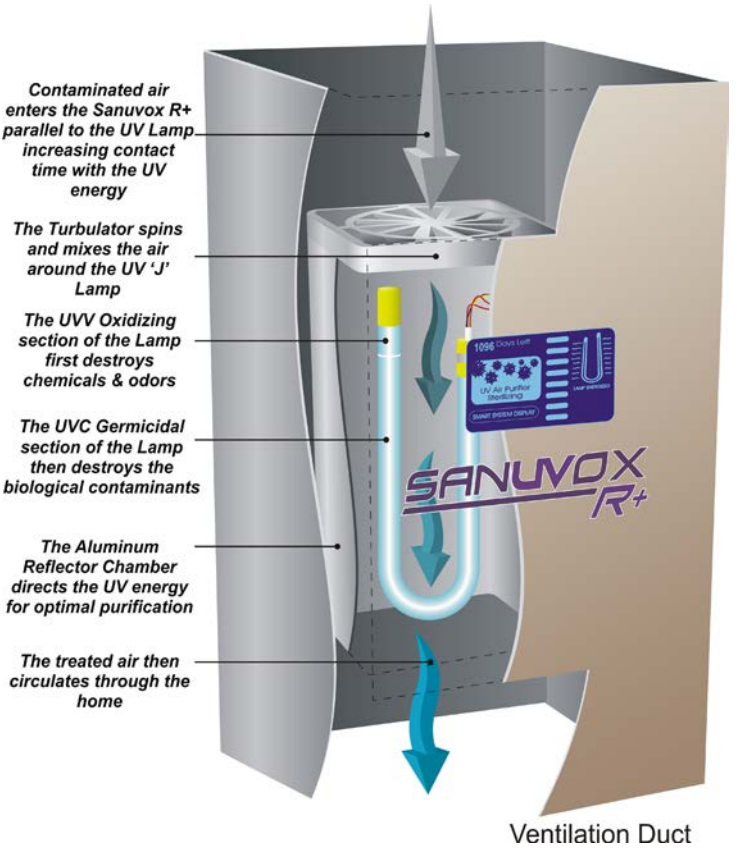
UVC & UVV light

The UVC (254 nm) and UVV (187 nm) light produced by Sanuvox UV Systems are the same two UV wavelengths produced by the Sun. The UVC wavelength attacks the micro-organism on a molecular level deactivating and destroying the contaminant while the UVV wavelength oxidizes the chemicals and odors into odorless inoffensive by-products.

Unlike conventional UV "stick-lights" on the market, Sanuvox UV Air Purification Systems use a patented process designed to deliver the maximum UV dosage to the moving air-stream.

The UV 'J' Lamp

With a 3 year Lamp life, the proprietary 18" high-intesity UV 'J' Lamp has all the advantages of having the intensity of two UV Lamps with the replacement cost of only one. The combination UVC & UVV wavelengths incorporated into one Lamp make biological, chemical and odor destruction possible.



Turbulator & Aluminum Reflector Chamber

By using a Turbulator to spin the air as it enters the Reflector Chamber, the Sanuvox process guarantees that the air receives the maximum UV dosage possible. Dwell (contact) Time between the air and the UV light is also increased, resulting in higher destruction rates. The Aluminum Reflector Chamber contains and reflects the UV energy delivering maximum efficiency.

Parallel Orientation to the air-stream

Because the two legs of the UV Lamp and the Reflector Chamber are mounted parallel to the air-stream, the dwell time between the air and the UV light is exponentially increased. The longer the air is in contact with UV light, the more UV energy can be delivered to the air-stream, resulting in a higher destruction rate.

WIRELESS

SABER PRO WIRELESS 24V

UV COIL-CLEAN SYSTEM

The proprietary Sanuvox Saber Pro Wireless 24V UV Object Purifier is designed to bask the evaporator coil with UVC Germicidal Energy, preventing and destroying mold, biological odors and other microbial contaminants.

A coil with bio-film (a coating of microbial growth) acts as an adhesive, attracting dirt and coating the fins of the coil. This typically results in an odor emanating from the equipment and a loss in energy efficiency as the equipment must work harder to provide the same air temperature.

The Saber Pro Wireless operates on 24* volts and includes a Wireless LCD Display. *(Optional 110 volt step-down transformer available should there not be 24V available).

FEATURES

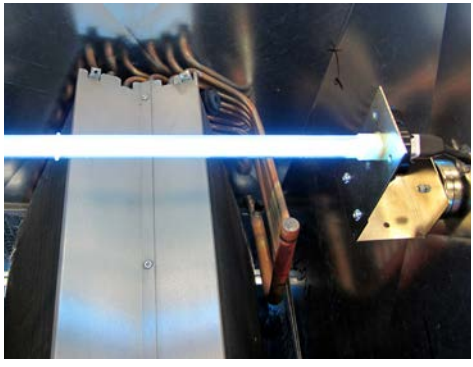
- *16" UVC Germicidal Lamp*
- *24V ballast with complete LED diagnostic status*
- *Magnetic multi-position bracket for UV Lamp*
- *Intelligent Voltage Protection (IVP): protects the A/C system from electrical overload*
- *5 year warranty on ballast*
- *1 year warranty on UV Lamp*

RF (Radio Frequency) LCD Display provides:

- *Real-Time system status*
- *'Days Left' until UV Lamp replacement (1 year)*
- *'Lamp Out' & 'Ballast Out' visual alarm*
- *'Contractor Call-Back' * indicator*
- *Intelligent Voltage Protection indicator*

** For certain quantities can be programmed with contractor name and phone number.*

PREVENT & DESTROY MOLD GROWTH ON THE A/C COIL



SABER MAGNET 24V

UV COIL-CLEAN SYSTEM

Also available without the Wireless LCD display

- *16" UV lamp*
- *24V ballast with complete LED diagnostic status*
- *Magnetic multi-position bracket*
- *5 year warranty on ballast*
- *1 year warranty on UV Lamp*

SANUVOX 'R' SERIES

IN-DUCT UV AIR TREATMENT SYSTEM

Sanuvox R+
Up to 4,000 sq.ft.

The Sanuvox 'R' series systems represents an evolution in UV In-Duct Air Treatment. The high-efficiency patented design destroys airborne bio-chemical contaminants while providing important user information on the LED (SR+ model) or 3" Back-Lit LCD display (R+model).

Installed into the return or supply plenum, the Sanuvox proprietary process maximizes dwell (contact) time between the air and UV energy. With the ability to treat homes up to 2,000 sq.ft. (SR+ model) and up to 4,000 sq.ft. (R+ model), the Sanuvox 'R' series represents the very best in UV Air Purification.

Sanuvox SR+
Up to 2,000 sq.ft.

'R' SERIES FEATURES

- *Whole home systems designed to destroy viruses, germs, bacteria, mold, chemicals, odors, allergens & VOCs*
- *Patented process incl. 19mm Quartz UVC/UVV 'J' Lamp, Turbulator & Aluminum Reflecting Chamber*
- *Most advanced air treatment system available*
- *Microprocessor controlled Thermistor for automatic operation*
- *CSA C/US Certified*

R+ Model Features

- *Covers up to **4,000 sq.ft.***
- *Intelligent ballast automatically switches from 110V to 220V*
- *3" LCD Display provides important user information*
- *UV Chamber rotates 360 degrees for vertical or horizontal systems*
- *3 year replacement warranty including UV Lamp*
- *Duct board kit included*

SR+ Model Features

- *Covers up to **2,000 sq.ft.***
- *110/220V operation*
- *Multi-color LED Status Display provides important user information*
- *UV Chamber rotates for up-flow or down-flow systems*
- *3 year warranty including UV Lamp*
- *Optional duct board kit available*

SR+ PURIFIES UP TO 2,000 SQ.FT. R+ PURIFIES UP TO 4,000 SQ.FT.

P900GX

PORTABLE UV AIR TREATMENT SYSTEM

The P900GX has all the benefits of the Sanuvox patented system in a portable air purifier weighing only 11 lbs. The variable speed blower of the P900GX moves the air into the reflective Aluminum Reaction Chamber so that the air travels parallel to the UV Lamp where the Dual Zone UVC/UVV (Germicidal /Oxidizing) Lamp destroys the biological and chemical contaminants.

The P900GX can be used continuously, or when the need arises. Easily transported and includes a stand and carrying handle. The P900GX will purify up to 900 square feet and is ideal for anyone in need of a cost effective solution, for those who work in offices, or for those who do not have a forced air home system.

FEATURES

- *Eradicates bacteria, viruses and mold*
- *Destroys chemical and biological odors*
- *Sanuvox's patented system in a portable UV Air Purifier weighing 11 lbs.*
- *Patented 19mm High-Intensity Quartz UVC/UVV 'J' Lamp (9" arc length)*
- *9 electronically controlled speeds*
- *Touch-Pad Digital Controls with Count-Down Timer*
- *Most effective Air Purification System for those who do not have a forced air system*
- *Purify up to 900 square feet*
- *Easily wall mountable. Stand and handle included*
- *3 year warranty on parts including UV Lamp*
- *CSA C/US Certified & CE Approved*

PURIFY UP TO 900 SQ.FT.

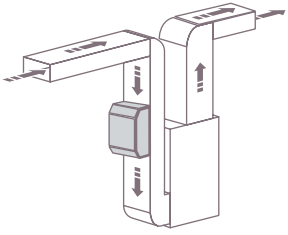
Stand-Alone

S300FX-GX*

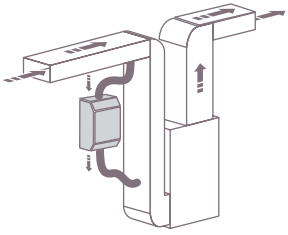
HEPA / UV AIR TREATMENT SYSTEM

The S300FX-GX is designed for applications that require filtration as well as purification. The included HEPA Filter is 99.97% effective, trapping particles down to 0.3 microns in size. Purification is done through Germicidal Photo-Oxidation. The air is pulled into the Aluminum UV Reaction Chamber where the air is made to pass parallel to the UV Lamp, bombarding it with UVC & UVV light, destroying the biological & chemicals in the air. The air continues to pass through the pre-filter and finally the HEPA filter.

By combining HEPA Filtration & UV Purification, Sanuvox is able to offer a complete IAQ solution in one unit.



Duct Mounted



Collar In/Out

FEATURES

- *2" pre-filter & True 2.5" HEPA Filter captures particles down to 0.3 microns in size*
- *Eradicates biological contaminants such as mold, bacteria, viruses, germs & allergens*
- *Destroys chemicals & biological odors*
- *200 / 300 cfm. 2 speed blower*
- *Patented 19mm High-Intensity Quartz UVC/UVV 'J' Lamp (18" arc length)*
- *Aluminum Reaction Chamber maximizes UV intensity*
- *Installation is quick & easy with no transitions to make*
- *High-Output Ballast*
- *Patented Design & Sanuvox Quality*
- *3 Year Warranty including UV Lamp*
- *CSA C/US Certified & CE Approved*

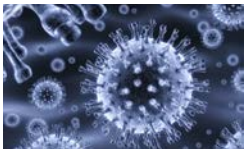
EASILY USED AS:

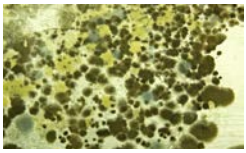
- *A Stand-Alone UV HEPA System (* shown above)*
- *Mounted to the HVAC system (with inlet/outlet knock-outs on the back)*
- *Remotely mounted collar in/out (with two 8" inlet/outlet collars)*

RESIDENTIAL / COMMERCIAL / MEDICAL

DESTROY CONTAMINANTS YOU INHALE

BACTERIA


VIRUSES


MOLD

ALLERGIES

CHEMICALS

PET ODORS & DANDER

COOKING ODORS

DUST MITE FECAL MATTER

LINGERING ODORS

BATHROOM ODORS

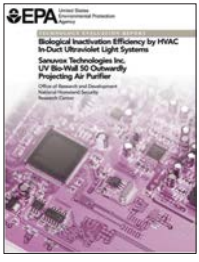
SICK BUILDING SYNDROME

TOBACCO PRODUCTS

RESULTS

TESTED & PUBLISHED RESULTS ON SANUVOX UV SYSTEMS

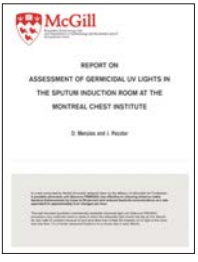
The following are a collection of independent third party tests and clinical studies conducted on Sanuvox UV systems. Sanuvox testing is referenced around the world to show the efficacy of UV technology. Only Sanuvox can reference the claims in the following studies. For more information on Sanuvox research & testing visit *www.sanuvox.com/en/research.php*.



EPA

National Homeland Security Research Center Sanuvox Testing

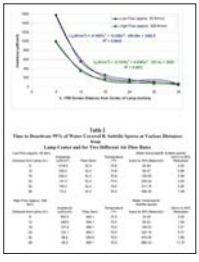
The Sanuvox In-Duct UV System (UV Bio-Wall) achieved on a single pass with no re-circulation +99.9% destruction (www.epa.gov/nhsrc/pubs/600r06053.pdf).



MCGILL UNIVERSITY

Lancet Medical Journal Study

McGill University 2 Year Double Blind Study published in The Lancet Medical Journal. Sanuvox UV Purifiers showed: 99% reduction of microbial and endotoxin concentrations, a 40% reduction in respiratory symptoms and 20% reduction in all symptoms.



PENN STATE UNIVERSITY

Sanuvox Testing

The Sanuvox UV Object Cleaner has been tested by Penn State University and shown to destroy 99% of spore forming B. subtilis in less than two minutes at a distance of 12".

MCGILL UNIVERSITY

Sputum Induction Room Chest Hospital TB Sanuvox Study

A Sanuvox P900GX was effective in reducing airborne viable bacteria (tuberculosis) by close to 90% and reduced bacterial concentrations at a rate equivalent to approximately 6 air changes per hour.

SANUVOX TECHNOLOGIES
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