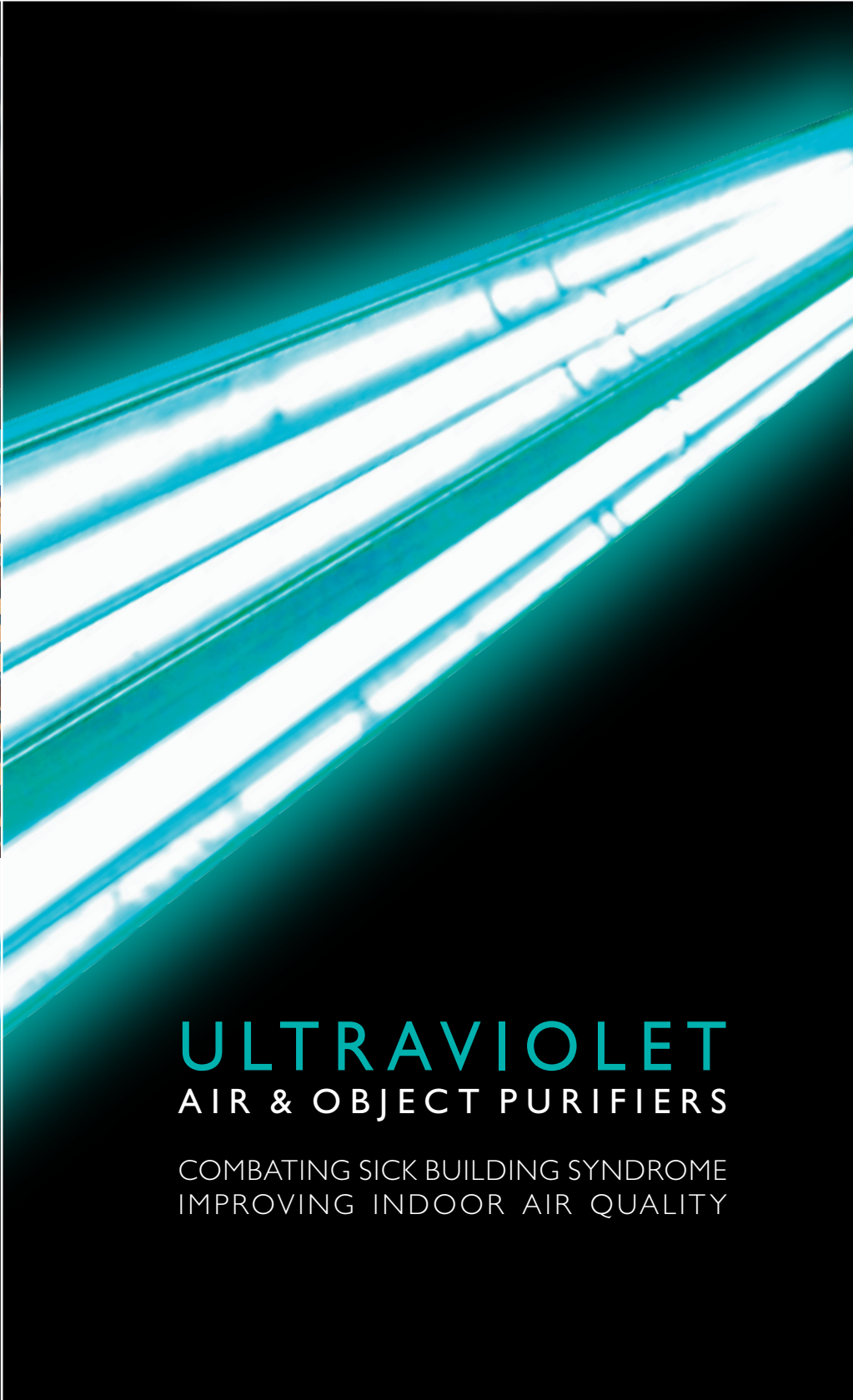




SPC

SPC HEAT PIPES FZC

SANUVOX



ULTRAVIOLET AIR & OBJECT PURIFIERS

COMBATING SICK BUILDING SYNDROME
IMPROVING INDOOR AIR QUALITY

ABOUT SPC SANUVOX

The Company

SPC is a UK based specialist manufacturer and supplier of heating and cooling equipment to the public and private sector in the UK.

The Middle Eastern arm of the business started its regional operations from a small office in Dubai in 2001 and SPC now have branch offices in Abu Dhabi, Qatar, Saudi Arabia and India.

SPC continues to expand into other markets such as Australia, North Africa, Singapore, China and those areas of Europe which can readily profit from the energy benefits of the company's product range.

We have an extensive range of products to meet the needs of our customers wherever their location, including; Heat Pipes, Ultraviolet Air & Object Purifiers, Dehumidifiers and Energy Recovery Ventilators (DERV).

Our task is straightforward; we improve the comfort and indoor environment of those who live and work in them, whilst ensuring that our expert team is on hand to guide you through the process of specifying and acquiring your bespoke solution. The result is a range of products that are economical to run, robust and aesthetic – with all the sales and technical support that you require.

It is a winning combination, and after more than 30 years in business, we have built a worldwide network of satisfied customers.

KEY FACTS ABOUT SPC:

- Major supplier to local government and commercial sectors.
- Free self-selection software packages.
- Regional Sales and Technical Support team.
- Free site check/survey.
- Investors In People in the UK.
- ISO 9001 in the UK and Middle East.
- Registered provider of CPDs in the UK.

KEY FACTS ABOUT SANUVOX

Sanuvox Technologies Inc. is a global leader in Ultraviolet air and object purification. Established in Canada in 1995, Sanuvox hold a number of international patents and brings products and solutions for virtually any indoor air quality issue to markets around the world.

Sanuvox products have been independently tested by McGill University, Penn State University, the United States Environmental Protection Agency (EPA) and The National Homeland Security Research Center (NHSRC) against Biological Warfare Agents and bacterial and viral contaminants.



SPC SANUVOX UV AIR AND OBJECT PURIFIERS

The Science of Ultraviolet Purification

INDOOR AIR QUALITY – THE DILEMMA

The quality of indoor air can be greatly overlooked in a commercial building, because of the emphasis on insulation to combat energy loss. This results in biological and chemical concentrations continually rising within the building.

Commercial buildings face a myriad of Indoor Air Quality issues, from not bringing in enough outside air to poor air being brought in from outside, odours, biological contaminants and VOC off-gassing to name a few.

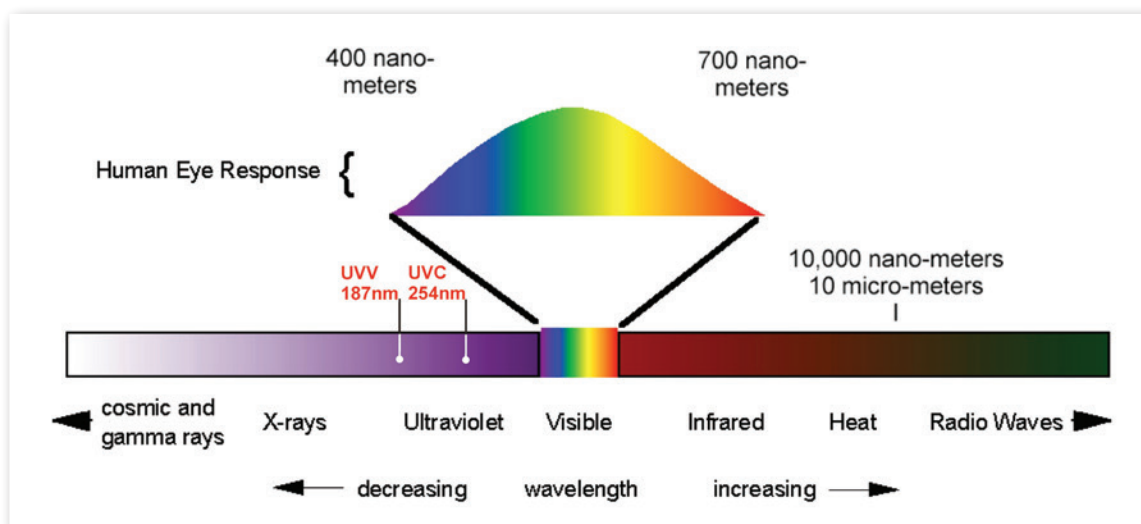
THE SCIENCE OF UV

The sun delivers specific UV wavelengths that destroy and deactivate biological and chemical contaminants that are in the atmosphere. SPC Sanuvox proprietary Ultraviolet lamps produce the same UV wavelengths as the sun. UVC (germicidal 254 nm) and UVV (oxidising 187 nm) wavelengths are produced using pure fused quartz glass that can be combined into one single UV lamp/emitter.

UVC energy attacks the DNA of a living cell, penetrating the cell membrane and breaking the DNA structure of the microorganism, inhibiting reproduction. UVC is effective in destroying biological contaminants such as mould, bacteria and viruses. The Centers for Disease Control (CDC) recommends this method for destroying viruses such as tuberculosis.

UVV is used for oxidation; this is the portion of the lamp that reduces chemicals and odours, such as cigarette smoke, VOCs, diesel fumes and formaldehyde, amongst others. Both UV wavelengths work together to destroy thousands of biological contaminants and reduce chemical contaminants that continually circulate within the building.

Depending on the application, SPC Sanuvox will use UVC, UVV, or a combination of both wavelengths to achieve the desired results.



SPC SANUVOX UV AIR AND OBJECT PURIFIERS

The Benefits

WHY IS SPC SANUVOX UNIQUE?

SPC Sanuvox has designed, engineered and patented UV systems for different applications. For airstream disinfection, the air velocities will be moving at hundreds or even thousands of feet per minute. The UV system (Figure A.) only has a fraction of a second (milliseconds) to bombard the moving contaminant with UV energy. In contrast, keeping a coil clean by preventing and destroying mould on the coil (Figure B.) is very different from airstream purification, because the coil as well as the UV system is stationary. The UV system has minutes, hours, days and even months to bask the coil with UV energy, not milliseconds.

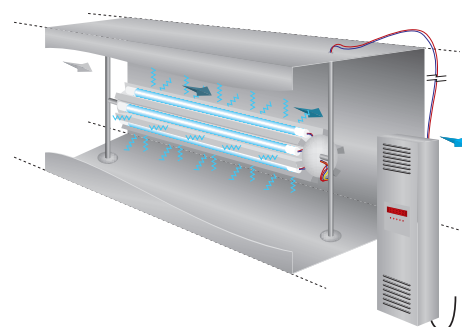


FIGURE A

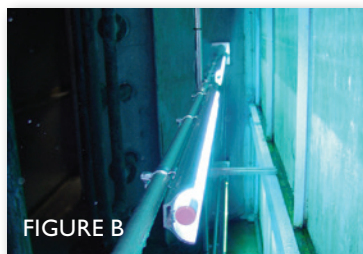


FIGURE B

This is why SPC Sanuvox designed and patented two different types of UV systems; UV Air Purification and UV Coil Cleaning. Every bio-contaminant requires a specific dose of UV microwatt energy for destruction. Typically, a virus and a spore will be much more resistant to UV energy than a bacteria, and consequently they require a longer exposure time to UV energy in order to achieve the desired destruction rate.

SPC SANUVOX ULTRAVIOLET LAMP TECHNOLOGY

STRAIGHT LAMP



SPC Sanuvox Ultraviolet lamps are available in a wide range of proprietary designs and UV wavelengths. SPC Sanuvox lamps are available as both "single zone" UVC (254nm) germicidal wavelength that will destroy biological contaminants & "dual zone" lamps incorporating UVC (254nm) germicidal & UVV (187nm) oxidising wavelengths designed to destroy biological & reduce chemical contaminants. Single zone UVV oxidising lamps are also available for specific applications.

Each SPC Sanuvox lamp is manufactured to meet strict quality control and efficiency guidelines and are tested before they leave the factory.

For shatter proof applications such as food processing, packaging, pharmaceuticals, etc. lamps may be specially ordered with a shatter proof teflon sleeve.

"J" LAMP



- High-intensity 19 millimetre dual zone UVC germicidal 254nm & UVV oxidising 187nm lamp.
- Internal Alumina Coating: Prevents solarisation of the lamp & increases stability and efficiency.
- Proprietary "J" Shape lamp effectively takes the place of two lamps.
- Proprietary Splice: This is where the UVV glass is fused to the UVC glass. The UVC Glass makes up at least 90% of the glass surface. UVV makes up the remainder (10% or less).

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

What do you want to treat?

WHAT DO YOU WANT TO TREAT? THE AIR OR THE A/C COIL?

SPC Sanuvox divide their commercial products into 2 categories:

- a) UV Object Purification (HVAC coil - walls, AHUs & FCUs etc)
- b) UV Air Purification

SPC Sanuvox UV Object Purifiers named appropriately the “CoilClean series”, are high-intensity UVC (germicidal 254nm) quartz lamps mounted into anodised aluminium parabolic reflectors. These systems are designed to irradiate stationary objects (usually an A/C COIL) with UVC light preventing and destroying mould and other microbial growth on the object. Although very effective in keeping a stationary object (such as a coil) clean, UV lamps shining on an object will have less effect on other Indoor Air Quality concerns outside of the object that is being treated.

SPC Sanuvox UV Air Purifiers are specially designed to drastically improve the air quality in the building or facility. SPC Sanuvox proprietary systems make it possible to deliver high amounts of UV energy to the air-stream while at the same time increasing the “dwell time” between the air and UV purifier.

SPC Sanuvox UV Air Purifiers use proprietary dual zone (UVC 187nm and UVC 254nm) high-intensity or UVC (254nm) high-intensity quartz lamps to destroy biological and chemicals in the air.

INDOOR AIR QUALITY – TECHNOLOGIES

POLLUTANT TYPE	EXAMPLES	REMEDICATION TECHNOLOGY
Solids	Dust	Filters
Chemicals	Solvents Formaldehyde VOC	Absorption on activated charcoal Thermal oxidation UV-Photo-oxidation
Biological	Fungi Moulds Bacteria	Germicidal chemical products UV Sterilisation DNA

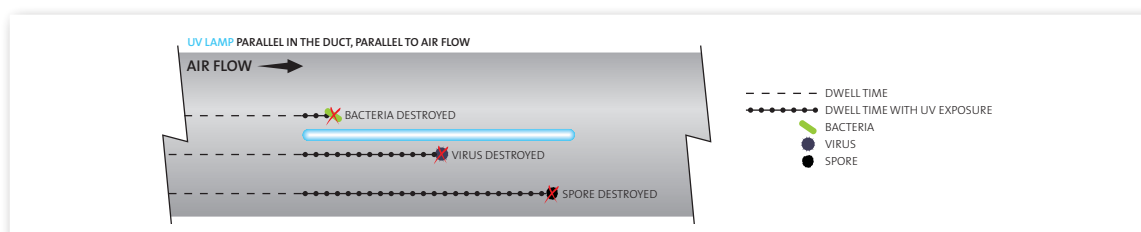
SPC SANUVOX UV AIR AND OBJECT PURIFIERS

The Importance of Parallel Installation in Air Purifiers

In order for Ultraviolet light to be effective in destroying biological contaminants in the moving air-stream, there has to be a specific amount of UV power delivered to the contaminant for a specific amount of time.

Contaminants require varying dosages of UV energy (μW) to be destroyed. Typically, bacteria are the weakest contaminants, requiring the least amount of UV energy. As a general rule, a virus is usually more resilient to UV energy, requiring more than twice the amount of UV energy than bacteria. A spore is typically the hardest to destroy, requiring more than 5 times the amount of UV energy compared to a virus.

Research on SPC Sanuvox systems show that PARALLEL installations of the lamp(s) in the air-stream will result in greater contact time (dwell time), allowing for more UV energy to be delivered to the bacteria, virus or spore, resulting in a high "kill rate". But more importantly from a practical standpoint, the parallel installation eliminates lamp surface fouling due to direct air impingement and reduces pressure drop. The parallel lamp orientation provides the best overall performance and efficiency.



The Importance of Reflection

All patented SPC Sanuvox Ultraviolet Air Purifiers and CoilCleaners use anodised aluminium.

The use of anodised aluminium reflectors is an integral part of the SPC Sanuvox proprietary system reflectors. By using reflectors, SPC Sanuvox is able to maximise virtually all of the UV energy, either by concentrating or directing the UV energy to where it is needed.

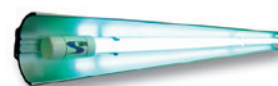
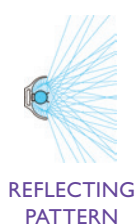
Aluminium is used because it has one of the highest co-efficient of reflectance at >85%.

BENEFITS OF REFLECTION

- Directs virtually all the lamp's UV energy where needed most.
- Drastically increases effective lamp life.
- Allows for the lamp to be self-cleaning by directing UV back in on itself, burning off bio-aerosols that adhere to the lamp glass surface.

A UV Bio-Wall uses five anodised aluminium parabolic reflectors to project the UV energy outwards from the centre of the duct (**example 1**).

A CoilClean IL Object Cleaner uses the reflector to direct the UV energy onto the evaporator coil and drainpan, destroying and preventing mould and other microbial growth. The reflector protects the lamp from contaminants striking and adhering to the glass and maintains the lamp at a stable temperature (**example 2**).



SPC SANUVOX UV AIR AND OBJECT PURIFIERS

In-Duct Ultraviolet Air Purifiers

UV BIO-WALL COMMERCIAL

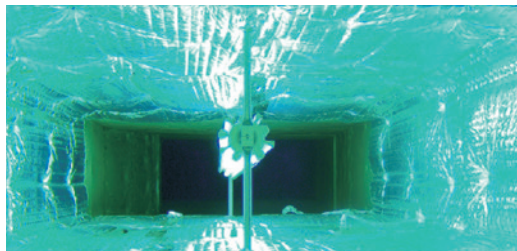
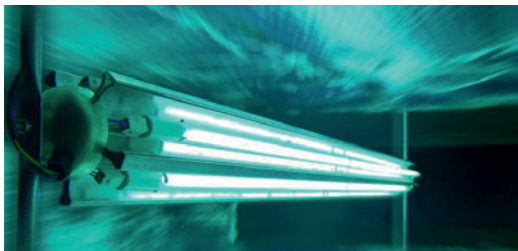
In-Duct UV Air Sterilisation System

The patented UV Bio-Wall provides a “barrier wall” of UV energy, destroying biological and chemical contaminants passing through it.

Each Bio-Wall uses 5 high intensity pure fused UVC quartz lamps, which are mounted into anodised aluminium parabolic reflectors that reflect the full 360° of germicidal radiation. The Bio-Wall is mounted parallel to the airstream in order to maximise the contaminants contact time with the UV energy.

The Bio-Wall is equipped with a monitoring display built into the ballast box which includes a digital visual hour accumulator, monitoring LEDs and “lamp out” alarms. Volt free contacts allow for building automation integration.

The number and length (lamps up to 60” long) of Bio-Walls will depend on the size of the duct, the velocity of the air moving within the duct, the specific contaminants to be treated and the desired % kill of the contaminants.



FEATURES

- Reduces airborne infection rates, building related illnesses, workplace absenteeism while dramatically improving Indoor Air Quality.
- Continuously treats the entire duct.
- Destroys up to 99.9999% of bio-chemical contaminants.
- SPC Sanuvox provides detailed real-time kill rates & sizing calculations.
- Tested by the US EPA and National Homeland Security to destroy >99.9% of bio-contaminants on a single pass.
- Available in 40”, 50” and 60” lengths.
- 5 high-intensity pure fused. Quartz UVC lamps.
- Anodised aluminium parabolic reflectors maximises UV energy.
- Digital Timer, LED & audible alarm on ballast control panel.
- Available with volt free contacts for BMS connectivity.
- CSA C/US certified and C E compliant.

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

In-Duct Ultraviolet Air Purifiers



QUATTRO LIGHT COMMERCIAL

(can be supplied pre-fitted to appropriate ductwork at extra cost on request)

In-Duct UV Air Sterilisation System

Inspired by the overwhelming success of the Commercial UV Bio-Wall, the QUATTRO is designed as a light Commercial In-Duct UV Air Purifier. The QUATTRO can treat the entire duct at one time, destroying up to 99.9% of the biological and chemical contaminants in the air-stream.

The Quattro includes three 18" high-intensity pure fused quartz UVC germicidal lamps and one 18" high-intensity pure fused quartz UVC / UVV lamp, which are attached to four anodised aluminium parabolic reflectors and are mounted parallel to the air-stream.

Adjustable mounting brackets permit the lamps and reflectors to be extended up to 15" from the duct wall so the assembly can be positioned in the centre of the duct-work, creating a wall of germicidal UV energy up to 30" deep.

FEATURES

- Commercial In-Duct UV Air Purifier.
- Treats the entire duct at one time.
- Destroys up to 99.9% of biological contaminants at one time.
- Reduces chemicals & destroys biological odours.
- Installed PARALLEL to the air-stream results in greater 'dwell time' between the air & the UV lamps.
- 1,600 microwatts per/cm² of UV intensity @ 360° radially to lamps.
- Four 18" high intensity pure fused quartz lamps.
- Four anodised parabolic reflectors intensify & maximise 360° of UV energy.
- Pressure Sensor turns purifier on & off. Simple installation, just 'plug & play'.
- LED 'smart system' status visual display.
- Four high-output electronic rapid-start ballasts.
- Adjustable clutch allows for reflectors & lamps to easily extend up to 15" to the centre of the duct.
- Patented design & SPC Sanuvox quality.
- Recommended lamp change after 2 years.
- CSA C/US certified & C E compliant.

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

UV Object Purifiers For Preventing Mould & Bacteria on Cooling Coils in AHU's & FCU's



UV COILCLEAN COMMERCIAL

Coil Cleaner for AHU's

The patented SPC Sanuvox CoilClean IL UV Systems (available up to 60" lamp length) are designed to prevent and destroy mould and other microbial growth from growing on the evaporator coil and surrounding areas. The benefits include eliminating biological "blow-off" of bacteria, viruses, spores and odours into the building while maintaining a clean coil, eliminating the need for conventional coil cleaning. **Typically, bio-film coats the coil, reducing heat transfer and efficiency. The coil clean IL maximises the systems performance by keeping the coil clean. This enables it to work at optimum efficiency and saves energy.**

By using anodised aluminium parabolic reflectors, SPC Sanuvox UV CoilClean Purifiers are able to direct virtually all the UV energy onto the coil without losing UV on the back, top and bottom of the UV lamp. The reflector also protects plastics and wiring from destructive UV rays. The CoilClean parabolic reflector maximises UV energy much the same way a flashlight or a car's headlight uses a reflector to direct the UV energy where it is needed most, in this case the HVAC coil. Using any other UV lamp / emitter will result in losing more than half the UV energy.

FEATURES

- Destroys mould and other microbial growth on the evaporator coil as well as biological odours.
- Improves energy savings & reduces coil maintenance.
- Available in sizes up to 60" lamp length.
- High-Intensity. UVC quartz lamp.
- SPC Sanuvox provides detailed real-time kill rates & sizing calculations.
- Patented UV system maximises UV efficiency, while protecting plastics from destructive UV rays.
- University tested & published results in The Lancet Medical Journal.
- Higher UV intensity & reliability than other UV lamp / emitters (ballast on the outside of the AHU).

TESTING – COIL CLEAN

Sick Building Syndrome

In a two year double blind study published in The Lancet Medical Journal sponsored by The Medical Research Council and The National Institute for Occupational Safety and Health (NIOSH), McGill University Researchers found Sanuvox UV CoilClean Purifiers to:

- reduce microbial and endotoxin concentrations by 99%.
- reduce respiratory symptoms by 40%.
- reduce all symptoms by 20%.

Radial lamps for Fan Coil units

Radial UV germicidal lamps are specially designed for the space available in Fan Coil Unit (FCU) cooling coils. Radial lamps can also be used in small ducted package units for coil disinfection.

Radial UV systems prevent and destroy mould and other microbial growth on the cooling coils, resulting in improved Indoor Air Quality.



SPC SANUVOX UV AIR AND OBJECT PURIFIERS

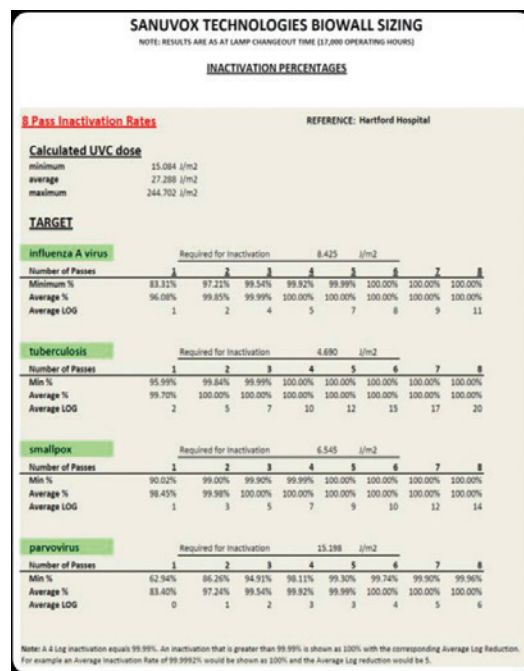
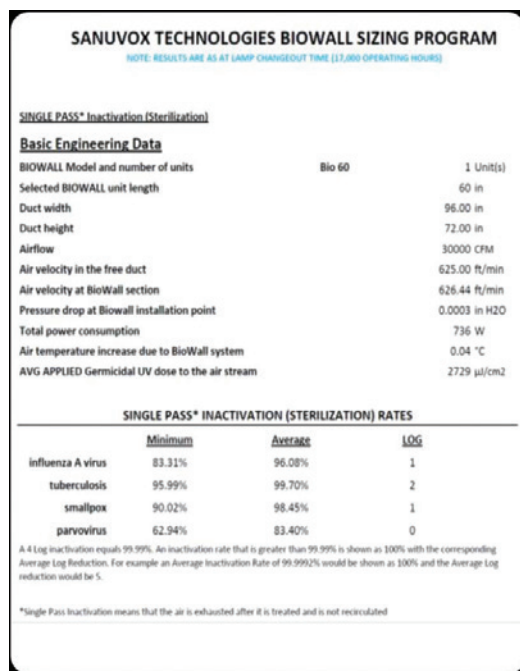
Selection Software

Selection Software is available for both CoilClean and AirClean applications.

An example of both can be seen below.

AIR CLEAN

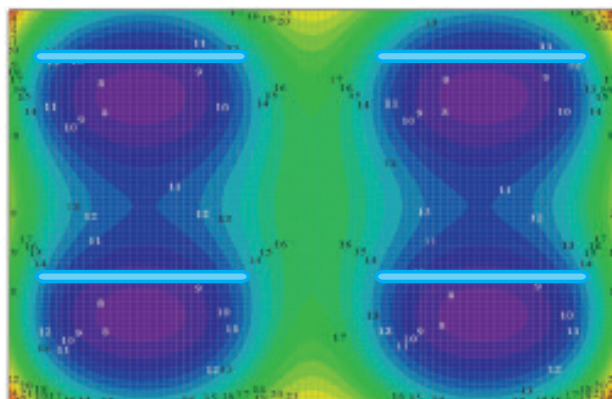
The sizing programme will select the system to use and lamp length, and will give a breakdown of kill rates on various Bio-Contaminants.



COIL CLEAN

In this example, the UV CoilClean Selection software bases all calculations on an Upstream (return side) installation on a coil measuring 130" wide by 96" high. The following information is generated by the Selection Software and provided in a user friendly PDF report.

SPC Sanuvox recommends that UV lamps are installed upstream of the cooling coils (as described in ASHRAE 2008, chapter 16). Installing UV lamps downstream of the cooling coils may result in an increase in the number of lamps required.



Targeted Virus

- 10 min. to complete destruction
- 15 min. to complete destruction
- 20 min. to complete destruction
- 25 min. to complete destruction

Note: Complete destruction is considered to be Targeted Virus treated to 99.99% inactivation.

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

In-Duct Ultraviolet Air Purifiers

TESTING – AIR CLEAN

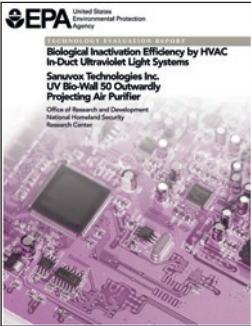
Tested by The Environmental Protection Agency (EPA) & The National Homeland Security Research Center (NHSRC) on Biological Warfare Agents (BWAs).

A SINGLE UV Bio-Wall 50" (available up to 60" Lamp lengths) showed greater than 99.97% destruction on one pass on airborne bacteria, 99% on viral & 93% on spore.

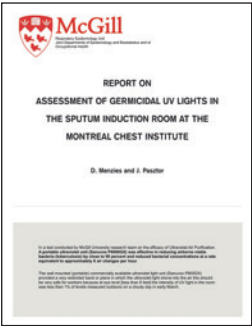
RESULTS

Tested and Published Results on SPC Sanuvox UV Systems

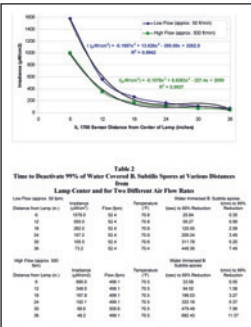
The following are a collection of independent third party tests and clinical studies conducted on SPC Sanuvox UV systems. Sanuvox testing is referenced around the world to show the efficiency of UV technology.



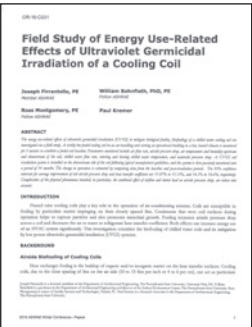
EPA
National Homeland Security Research Center Sanuvox Testing
 The Sanuvox In-Duct UV System (UV Bio-Wall) achieved on a single pass with no re-circulation +99.9% destruction.



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.



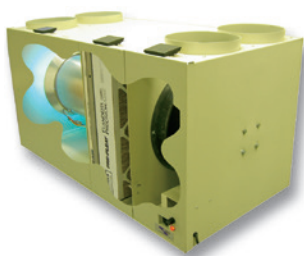
PENN STATE UNIVERSITY
Sanuvox Testing
 The Sanuvox UV Object Cleaner has been tested by Penn State University and shown to destroy 99% of spore forming B. subtilis in less than two minutes at a distance of 12".



ASHRAE WHITE PAPER
Energy Saving using UV
 The recent ASHRAE paper on the energy use benefits of germicidal UV concludes that a 15% increase in heat transfer coefficient was achieved when a fouled cooling coil was cleaned using UV radiation and that there was a pressure drop reduction of 10%. This can give significant improvement in both performance and energy savings.

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

Stand Alone or Ducted Models



SI000FX-GX

Filter / UV Sterilisation

The SI000FX is a combination Ultraviolet - filter air purifier. The SI000FX can be used in applications including hospital clean room, biological treatment, smoking environments and garbage room odour treatment to name a few.

FEATURES

- Destroys biological contaminants such as mould, bacteria, viruses, germs, allergens.
- Reduces chemicals & destroys biological odours.
- Stand-alone installation or can be ducted to multiple rooms.
- "Clean Room Option" includes HEPA filter to capture particles down to 0.3 micron in size & additional UVC "J" lamp.
- 1750 cfm blower. Under load with filters, 1000 cfm.
- Patented 19mm pure fused quartz UVC/UVV "J" lamp.
- Two 1" pre-filters & one 4" 95% ASHRAE pleated filter.
- 2 year warranty.
- C E compliant.



S300FX-GX

HEPA / UV Sterilisation

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.

FEATURES

- 2" pre-filter & True 2.5" HEPA filter captures particles down to 0.3 microns in size.
- Eradicates biological contaminants such as mould, bacteria, viruses, germs & allergens.
- 2 year warranty.
- CSA C/US certified and C E compliant.
- Patented 19mm high-intensity quartz UVC/UVV 'J' lamp (18" arc length).
- Reduces chemicals & destroys biological odours.
- 200 / 300 cfm. 2 speed blower.

IDEAL FOR

- Ideal for smoking rooms, garbage rooms, bars, restaurants, casinos, homeless shelters and odour control.
- Examples of clean room options include: clean rooms, operating theatres, hospitals, manufacturing and laboratories.



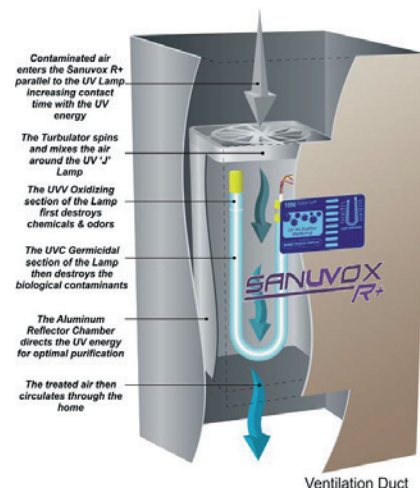
SPC SANUVOX UV AIR AND OBJECT PURIFIERS

Residential UV Purifier

SPC SANUVOX 'R' SERIES IN-DUCT UV AIR TREATMENT SYSTEM

The SPC 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).

R series i.e R+ and SR+ is designed to destroy viruses, germs, bacteria, mould, chemical, odours, allergens & VOCs. R+ & SR+ units have microprocessor controlled thermistors for automatic operation. Both units are 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



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

P900GX - PORTABLE UV AIR TREATMENT SYSTEM

The P900GX has all the benefits of the SPC 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 /Oxidising) 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.



SPC SANUVOX UV AIR AND OBJECT PURIFIERS

Speciality Ultraviolet Products - Health Care



ASEPT.2X

UVC Disinfection in Hospital

Ultraviolet Germicidal irradiation (UVGI) has been used for more than 50 years in hospitals and various other industries including water treatment. UVC germicidal energy is effective at penetrating the cellular membrane of a microorganism causing irreparable damage to the DNA resulting in sterilization of the microorganism.

FASTER AND MORE EFFECTIVE DISINFECTION ELIMINATING SHADOWS

Conventional mobile/room UV disinfection systems are effective but require multiple positioning within a room to eliminate the "shadow area" that block the sterilizing ability of the UVC light. In doing so, time and resources are spent moving the system around the room and in some cases preparing the room for the additional treatment. The ASEPT.2X UV disinfection system eliminates shadow by using a primary & secondary unit to bombard high touch area with direct UVC energy throughout the room.

ASEPT.IX

The ASEPT.IX takes surface disinfection to the next level by continually disinfecting one of the most contaminated & problematic areas of a medical facility - the bathroom.



ASEPT.IX is completely automated with features such as door switches and infra-red motion detectors. The ASEPT.IX will only operate in an unoccupied bathroom basking high touch areas with high intensity UVC germicidal light achieving up to a 6 log reduction on contaminants such as MRSA, C.difficile & VRE.

ASEPT.2X Features

- Complete with all safety features eg: motion detector.
- Wi-Fi capability for wireless communication through mobiles and laptops.
- Data logging.
- Easy to manoeuvre hand rail for portability.
- Help reduce HAIs by eliminating pathogens such as MRSA, C.diff and VRE.

ASEPT.IX Features

- Help reduce HAIs by eliminating pathogens such as MRSA, C.diff and VRE.
- No touch Disinfection (NTD) solution for unoccupied bathroom.
- Easily mounts on wall.
- Irradiates all high touch areas with high intensity UVC germicidal light.
- Safety features guarantee a safe 5 mins disinfection cycle.

SPC SANUVOX UV AIR AND OBJECT PURIFIERS

Applications and Solutions for UV Purification

APPLICATIONS AND SOLUTIONS

1 PUBLIC AREAS

2 MEDICAL APPLICATIONS

3 MUSEUMS

4 RUBBISH ROOMS

5 EDUCATIONAL FACILITIES

6 PRODUCE STORAGE

7 FOOD PROCESSING

8 COMMERCIAL BUILDING

9 PRISONS

10 HOSPITALITY INDUSTRY

11 AIRPORTS

12 RESIDENTIAL BUILDING

A SAMPLE OF PROJECTS COMPLETED

PROJECT NAME

APPLICATION

PNU-Princess Noura University, Riyadh

Educational

Sharjah University, Sharjah U.A.E

Educational

Imperial College of London - Al Ain UAE

Educational

Qatar University

Educational

Medical Science College - Riyadh

Educational

Cleveland Clinic, Abu Dhabi

Medical

Shree Aurobindo Institute of Medical Science, Indore

Medical

King Khalid Hospital

Medical

Medanta - The Medicity - New Delhi

Medical

Adnoc Hospital

Medical

Shiekh Khalifa Specialist Hospital in Ras Al Khaimah

Medical

Al Yarmook Hospital, IRAQ

Medical

Diwanya Province Hospital in Iraq

Medical

Mafraq Dialysis Centre, Abu Dhabi

Medical

National Medical Centre, Pakistan

Medical

USV Project at Nerul, Maharashtra, India

Medical

Qassimi Hospital, Sharjah

Medical

Aspetar Qatar Orthopaedic & Sports Medicine Hospital

Medical

Park Khubchandani Hospital

Medical

British Printing Press

Offices

Marina View Tower - Singapore

Commercial Building

Canadian Embassy, Mumbai

Offices

The Pearl Qatar

Residential Building

Doha International Airport

Airport

Palm Jumeirah Sofitel Hotel

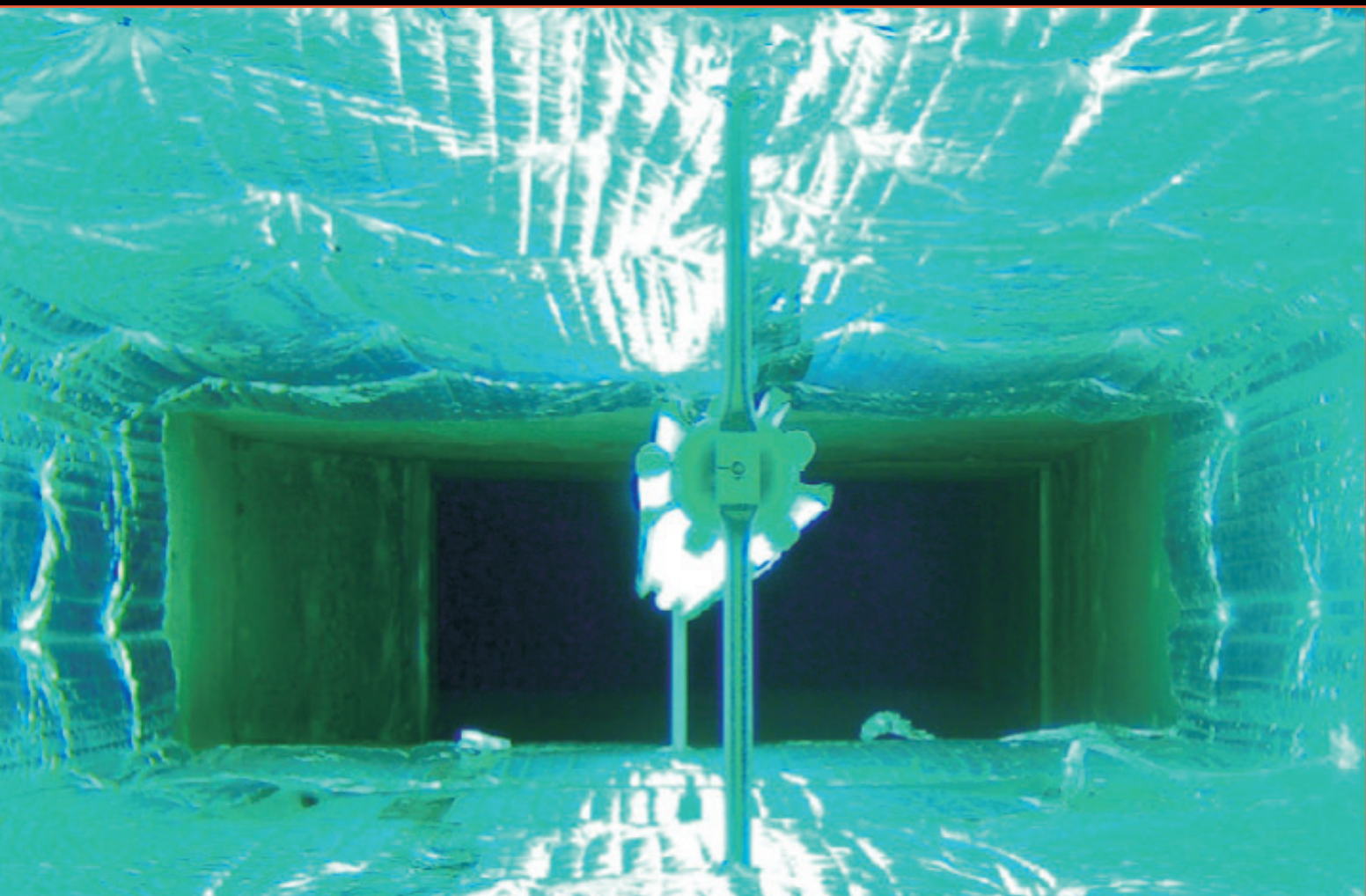
Hospitality

Holiday Inn

Hospitality

Le Meridien Hotel, Dubai

Hospitality



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