

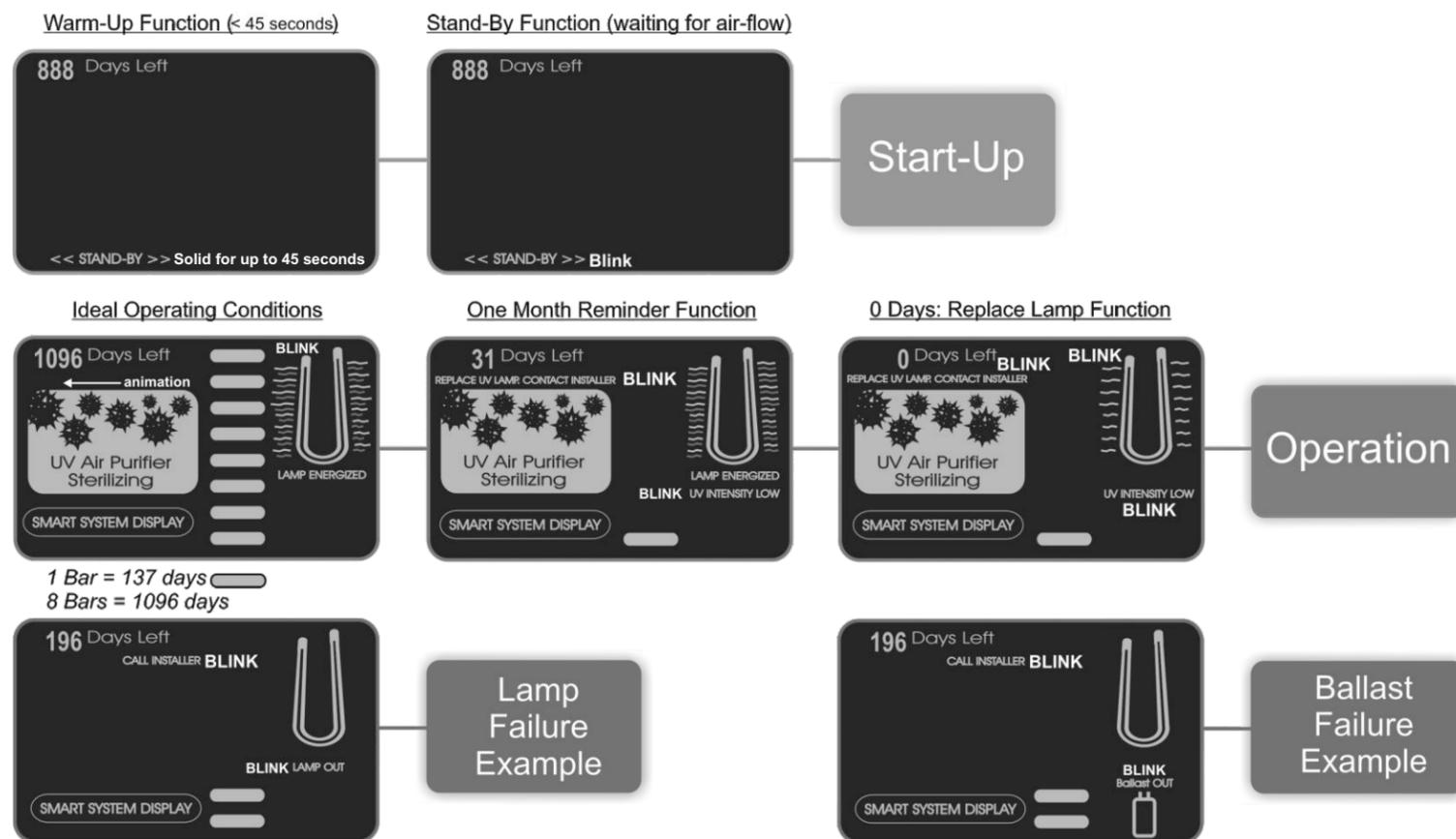
## Operation

- Once installed, the Sanuvox R+ should preferably be plugged into a conditioned dedicated 110V outlet. If one is not available, an extension cord may be used. For 220V applications, the Sanuvox R+ plug may be cut and hardwired to a dedicated 220V source.

**IMPORTANT: When the Sanuvox R+ is turned on, The <<STAND-BY>> icon will appear on the LCD display. The Sanuvox R+ must first go through a warm-up not lasting more than 45 seconds, after which time the unit will become operational and the <<STAND-BY>> icon will begin to blink. THE UNIT WILL NOT FUNCTION UNTIL THE WARM-UP IS COMPLETE.**

- To turn the Sanuvox R+ 'ON', press the toggle switch on the center of the front cover to the 'ON' position. The <<STAND-BY>> icon will appear on the LCD display not lasting more than 45 seconds (warm up). After the warm-up, the purifier will be in "Stand-By Mode" (<<Stand-By>> will begin to blink). The purifier will remain in Stand-By Mode until the purifier senses air-flow.
- Upon sensing air-flow the purifier will automatically switch to "Air Purification Mode" The <<STAND-BY>> icon will disappear and be replaced with useful user information.

## UNDERSTANDING THE LCD DISPLAY



### Troubleshooting the UV Lamp To check to make sure the UV Lamp has in fact failed:

Disconnect the socket from the Lamp.

Placing the probe of the ohmmeter to one of the four pins on the end of the Lamp, touch the other probe of the ohmmeter to each of the other pins until you find the matching pin. The ohmmeter will read approximately 3 ohms (almost a short). This indicates that the filament is good. Check the other two pins. If both sets of filaments test OK, the Lamp is functioning. If one or both sets of filaments read an open circuit (infinity) on resistance, the Lamp must be replaced.

### UV LAMP RESET BUTTON (To be used to reset "Days Left" after UV Lamp change-out)

To the right of the LCD screen is a small hole which houses the RESET BUTTON. To RESET the "Days Left" back to 1096, insert a small object similar to a paper clip into the hole holding down the button for 3 seconds.

### WARNING

Before installing or performing maintenance or service on the purifier, turn off main power switch to unit. Electrical shock can cause injury or death. There may be more than one disconnect switch.

### WARNING

Never expose eyes or skin to ultraviolet light from any source. The Purifier MUST be DISCONNECTED from power source before performing maintenance or service. Personal injury may result.

### WARNING

Do not touch Lamp glass without gloves. Reduced performance of Lamp may result. Clean Lamp after handling.

### WARNING

The UV Lamp contains a small quantity of mercury. If a Lamp breaks, clean and dispose of with care.

### WARNING

Use only specified replacement Lamps with you Purifier. Use of an incorrect Lamp can result in damage to the Purifier and/or Lamp.

**Follow all safety codes.  
Wear safety glasses and work gloves.**

## PLEASE SAVE FOR YOUR RECORDS

Serial Number# \_\_\_\_\_

Date Installed: \_\_\_\_\_

Installed By: \_\_\_\_\_

Installers Contact info.: \_\_\_\_\_

## INCLUDED IN THE BOX:

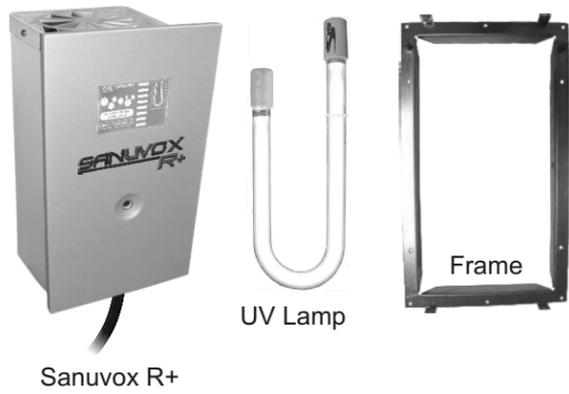


FIGURE A.

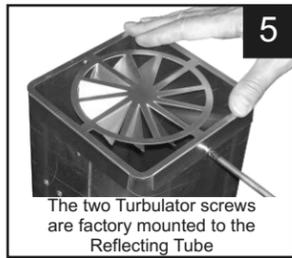
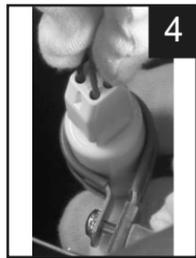
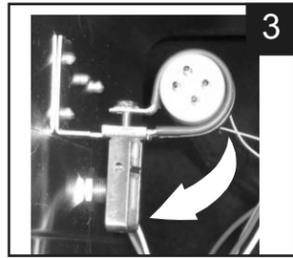
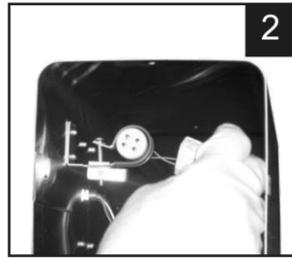
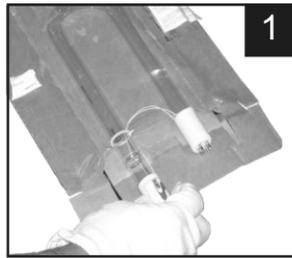
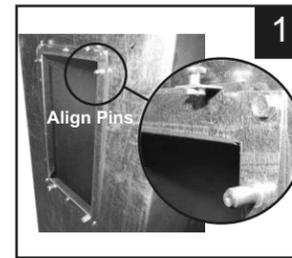


FIGURE B.



FIGURE C.



## Installation Kit #1

- Gloves
- 6 x Sheet Metal Screws (#8) (1/2" long)
- Turbulator



## Ductboard Mounting Kit #2

- 2 x "L" Bracket Supports
- 4 x Sheet Metal Screws (#8) (2" long)
- 2 x "Tree" Buttons
- Instructions



## SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air conditioning equipment. Untrained personnel can perform basic maintenance functions such as changing lamps. Trained service personnel should perform all other operations. When working on air conditioning equipment, observe precautions in the literature, tags and labels attached to the unit or accessory, and other safety precautions that may apply. Follow all safety codes. Wear safety glasses and work gloves.

## INSTALLATION

**Location** The preferred location for installation of the Sanuvox R+ UV System is in the return duct as the air will be treated before the filter and HVAC coil. If it is not possible to install in the return duct, it may be installed in the supply duct. Make sure site can be supplied with the necessary power requirements. *Direct UV exposure is dangerous to plastics. Wrap exposed plastic and wiring to shield from direct UV exposure* (The Sanuvox wire-set is Teflon coated which makes them resistant to UV exposure). The purifier can be mounted in a horizontal or vertical position. More than one unit can be used in homes equipped with more than one air handler.

### Preparing the Sanuvox R+ for Installation (FIGURE A.)

NOTE: Remove contents from packaging. Only after you visually inspect the UV Lamp should you break the Security Seal on the underside of the cardboard sleeve.

- Carefully slide the UV Lamp out from the protective sleeve. Be sure to wear the cotton gloves (included) guaranteeing a clean Lamp free from fingerprints.
- Slide the UV Lamp porcelain end-cap (the end with the 4 pins) through the clamp bracket. Insure that the Tension Lever is facing downward.
- Once the Lamp end-cap is in place, move the Tension Lever UP to lock the Lamp in place. If the Lever is loose, turn the Lever clockwise a turn or so to tighten.
- While holding the side of the Lamp attached to the clamp (the end with the four pins), carefully push the white connector onto the four pins. NOTE: Although the Lamp is fairly strong, too much tension from the opposite side may break the Lamp.
- Once the Lamp is installed, place the Turbulator on the top of the Reflecting Tube securing it with the two screws. The two screws are already screwed to the Reflecting Box when shipped from the factory. The air must pass through this Turbulator as it enters the Reflecting Tube.

### Preparing the Duct (return or Supply) for Installation (FIGURE B.)

NOTE: Evaluate the ideal area for locating and installing the purifier. Ensure that the purifier will fit into the plenum. The space required inside the plenum is approximately 9" deep x 6" wide x 12" high.

- Use the included metal frame to trace the outline onto the duct (allow for a 1/4" space around the marking as to allow the frame to sit properly in the duct). This will be the guide to cut the duct opening. The duct opening is 12.25" x 6.25".

### Mounting the Sanuvox R+ to the Ductwork (FIGURE C.)

The metal frame is what supports the purifier to the duct. The metal frame will fit into the 12.25" x 6.25" opening. Use the six (6) sheet metal screws to mount the frame to the duct. There are a total of 10 holes on the frame. The top 3 and bottom 3 holes are used to secure the frame to the duct wall. The two holes on either side of the frame are to be used for the ductboard mounting kit. *NOTE: The orientation of the frame should be as to allow for the "Align Pins" to be positioned in the upper portion of the frame (Figure3).*

- Place the Sanuvox R+ into the frame, guided by the 'align pins'.
- Secure the Sanuvox R+ to the frame with the four (4) retaining screws (two on the top, two on the bottom) NOTE: The Reflecting Tube which houses the UV Lamp may be rotated 360 degrees (in 90 degree increments) allowing for the control box to be vertical in almost any situation, but allowing the Turbulator, Reflecting Tube and Lamp to face the air-flow. (I.E. horizontal air-flow or up-flow air-flow). To rotate the Reflecting Tube and UV Lamp, the front cover must be removed. The two Philips screws in the center of the housing (just above the hex nut) must be removed. This will allow for the Reflecting Tube and UV Lamp to be easily rotated. Re-fasten screws once the desired orientation is found. Replace cover.

Please Note: For DUCTBOARD installation, please refer to instructions included in Ductboard Mounting Kit #2

## GENERAL

The Sanuvox R+ Ultraviolet Air Purification System is designed to destroy bio-chemical contaminants such as mold, bacteria, viruses, chemicals, VOCs and odors that may be transmitted through the HVAC (heating ventilation, and air conditioning) system.

The Sanuvox R+ may be installed in the return or supply plenum.