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# SANUVOX

## RMax Installation Manual



 **WARNING**

**READ AND FOLLOW ALL INSTRUCTIONS CONTAINED IN THIS MANUAL BEFORE USE.  
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL  
INJURIES OR DAMAGED UNIT.**

Installation and servicing of equipment can be hazardous. Only trained and qualified service personnel should install, repair or service equipment. Follow national and local safety codes.  
Always wear safety glasses and work gloves for protection.

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## About the RMax

### GENERAL

The RMax is specifically designed to destroy biological and chemical contaminants such as mold, bacteria, viruses, chemicals\*, VOCs and odors that may be circulated through the HVAC system of your home.

The RMax is installed in the RETURN (preferred) or SUPPLY plenum of the HVAC system treating the air passing through the reflecting chamber. The actual percentage of destruction obtained is based on percentage of fresh air, air velocity, the number of passes and specific contaminants to be treated.

For information or recommendations to size appropriately your specific application, please call Sanuvox at 1-888-SANUVOX.

\*Only with LMPHGXJ105 UV lamp

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### SAFETY PRECAUTIONS

Installation and servicing of air-conditioning and related equipment can be hazardous due to system pressure and electrical components. Only trained and accredited service personnel should install, repair or service such equipment.

Untrained personnel can perform basic maintenance functions such as replacing lamps. All other operations should be performed by trained service personnel. When working on the RMax, observe precautions in the literature, tags, labels attached to the unit and any other safety precautions considered as best practices in the HVAC industry.

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### CLEANING PRECAUTIONS

For optimal air purification performance, the lamp and reflecting chamber assembly should be kept free of dust / residue deposit and cleaned regularly using mild soaps or alcohol. Always spot test the cleaner to make sure it does not damage the surface.

Under no circumstances should water be sprayed or splashed onto the RMax.

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## IMPORTANT SAFETY INSTRUCTIONS

### WARNING

Before installing or performing maintenance on the unit, TURN OFF and disconnect unit from power source. Electrical shock may cause personal injuries or possibly death.

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

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

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

Use only specified replacement lamps with your unit. Use of an incorrect lamp can result in damage to the unit and/or lamp and will also void the warranty.

When applicable local regulations comprise more restrictive installation and/or certification requirements, the aforementioned requirements prevail on those of this document and the installer agrees to conform to these at his own expense.

When performing installation, servicing or cleaning the UV purifier, it is recommended to wear safety glasses and gloves.

### NOTICE

UV lamp can be disposed / recycled after use as any other fluorescent lamp. Contact and follow your local and national authorities' specific instructions.

## WARRANTY




The warranty applicable to the different components included in your purchase are as per the table below:

Component	Warranty
UV lamp	3 years
Ballast	3 years
Electronics (circuit board)	3 years

Make sure to keep a copy of your proof of purchase in order for the warranty to be valid.

## INCLUDED IN THE BOX

The RMax you purchased includes the following :

Component	Qty
RMax 	1
UV lamp LMPHGXJ105 	1
Installation Kit - UV Caution Decal - Maintenance Decal - Pair of cotton gloves - Metal screws for frame (Qty:6) - Phillips screws for cover (Qty:4) - “8-32” screws for turbulator (Qty:2) - Frame - Turbulator 	1

## AVAILABLE OPTION (SOLD SEPERATELY)

The MSC Duct options can be purchased separately :

Component	Qty
- Duct board installation kit includes - Steel angle - Screws 2in - Plastic tree clips	2 4 2

For more information, please visit our website [www.sanuvox.com](http://www.sanuvox.com) or contact Sanuvox at 1-888-SANUVOX.

## INSTALLATION GUIDE

Ensure that the site where the RMax will be located can be supplied with the necessary power requirements (120-240V @ 50-60Hz). To find out the power consumption of the RMax air purifier refer to the marking label on your unit.

Make sure there is adequate clearance for service. Any plastic components in direct line-of-sight of the UV lamp should be shielded from direct UV exposure with aluminum foil or removed when possible. The Sanuvox wire-set is Teflon coated which makes it resistant to UV exposure.

The RMax relecting chamber has to be installed parallel to the airflow with the turbulator upstream to slow down the air as it moves in front of the UV lamp.

The suggested operating temperature range is 10 to 50°C (50 to 120°F). Operating the RMax outside this range will result in decreased performance. For optimal performance, air temperature moving through the reaction chamber should be in the range of 15 to 20°C (60 to 70°F).

The RMax is not weatherproof. Do not install outdoors.

### **WARNING**

Follow all the Safety Instructions outlined in this document and respect all local and national codes applicable.

## STEP BY STEP INSTALLATION

### 1. Prepare the RMax for installation

1.1 Remove the contents from the packaging. Only after you have visually inspected the UV lamp should you break the security seal on the underside of the cardboard sleeve.



1.2 Carefully slide the UV lamp out from the cardboard sleeve. Be sure to wear the cotton gloves (included) guaranteeing a clean lamp free from fingerprints. Fingerprints on the lamp will negatively impact the UV output of the lamp.



1.3 Slide the UV lamp porcelain end-cap (with 4 pins) in the aluminum tube of the unit then through the clamp. Ensure that the tension lever is disengaged. Once the UV lamp is in place, move the tension lever up to lock the lamp in position. If the lever is loose, turn the lever clockwise a few turns before tightening up the lever again to lock the lamp.



1.4 While holding the porcelain end-cap (with 4 pins) in the clamp, carefully push the white connector onto the four pins. The connector will fit in 2 positions.

NOTE: Too much force applied from the opposite end-cap may break the lamp.



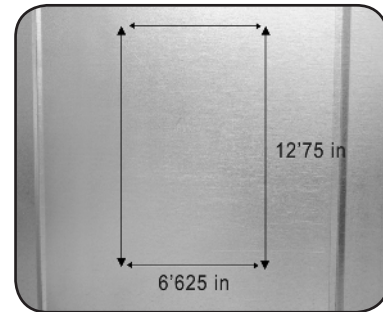
1.5 Once the UV lamp is installed, place the turbulator on top of the reflecting chamber securing it with 2 screws provided in the installation kit. It is important to note that the air should first flow through the turbulator before moving in front of the UV lamp.



### 2. Prepare the duct (return or supply) for installation

2.1 Evaluate the ideal area for installing the air purifier. The reflection chamber should always be parallel to the airflow. Ensure that the purifier will fit into the plenum and position it keeping in mind to minimize plastics exposure to direct UV light.

2.2 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. The duct opening window should have the following dimensions: 12.75" x 6.625".



2.3 Place the frame into the opening made in the duct and use the 6 metal screws provided in the installation kit to secure it to the duct. Use preferably 3 top and 3 bottom holes of the frame to insert the screws.



### 3. Finalize RMax installation in the duct and power ON

3.1 Place the RMax into the frame, guided with the alignment pins.



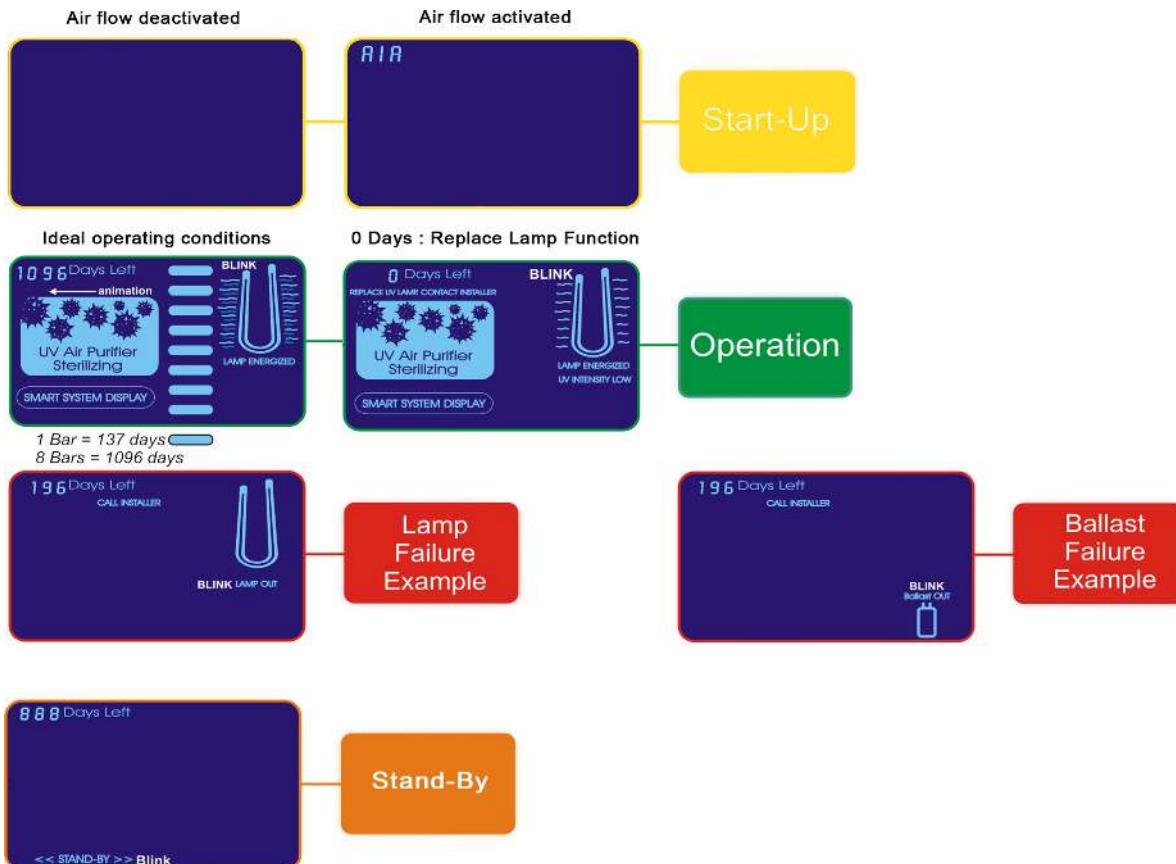
3.2 Secure the RMax to the frame with the 4 remaining screws located in the 4 corners of the RMax cover.



3.4 You are now ready to power ON your new RMax and enjoy great air quality for you and your family.

3.3 Use the power cord of the unit to plug into a wall outlet that provides the power as indicated on the marking label of the product. An extension cord may be used if there is not a power outlet close to where the RMax is installed.

## INFORMATION FROM THE LCD DISPLAY



## ACTIVATING AIRFLOW DETECTION (OPTIONAL)

The RMax default factory mode, when the unit is plugged in and the power switch is ON, the lamp will stay lit at all times in order to reduce the cycling strain on the lamp and improve its life.

It is possible to activate the airflow detection if required. The activation procedure is as follows:

1. If your unit is powered ON, start by turning OFF the power switch.
2. Use a small object similar to a paper clip and insert it into the reset hole in order to be able to press the reset button.
3. First turn ON the power switch, and press the reset button. You have 5 seconds from the moment the unit is powered to press the reset button to activate the airflow detection. Every time you press the button you will notice the word “AIR” appears or disappears from the top left corner of the LCD screen. Once “AIR” appears on the screen, wait 5 seconds for the control circuit to save the setting.

4. From now on, the RMax will only activate when the thermistor detects airflow in your duct system.



## RESET THE LAMP TIMER

After installing the lamp, make sure the timer function is reset.

1. To reset the lamp timer the unit **needs to be powered and turned ON**. The LCD status should be on ‘Stand-by’ or ‘Active’.
2. Use a small object similar to a paper clip and insert it into the hole in order to be able to **press the reset button**.
3. Press and hold the reset button for a **minimum of 3 seconds**. When releasing the reset button the counter will be reset and the “Days Left” on the LCD screen will reset to 1096 days.

## Replacement parts

Part Number	Description
BST120/277GLR	Ballast with mutli-voltage input of 120 to 277V (50-60Hz)
LMPHGXJ105	T6 High Intensity Dual Zone (UVC / UVV) 10.5in “J” shape UV lamp
LMPHGJ105	T6 High Intensity Germicidal (UVC) 10.5in “J” shape UV lamp