

PURA VIDA

AIR SYSTEMS 2008B



INSTALLATION AND OPERATIONS MANUAL

PLEASE READ AND SAVE THESE INSTRUCTIONS!

FIFRA ...EPA EST No. 87447--TX--001



OPERATIONS AND MAINTENANCE SCHEDULE

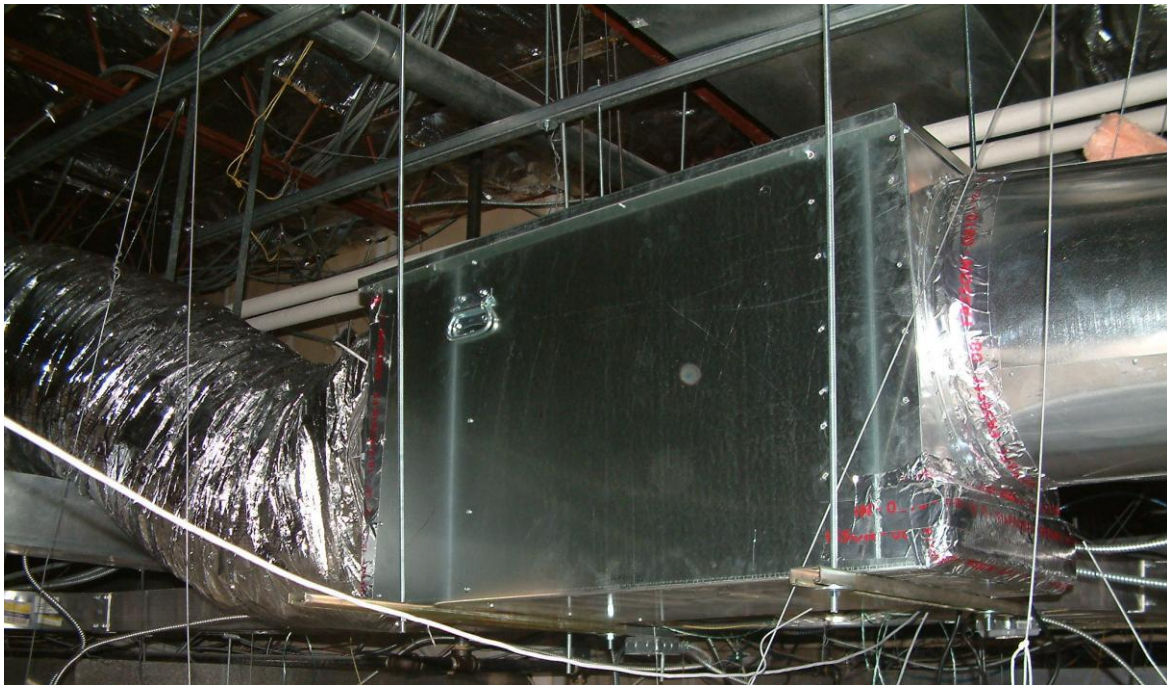
This manual will guide the maintenance personnel in installing and servicing the Pura Vida Air Systems 2008B unit.

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INTRODUCTION

The Pura Vida Air Systems 2008B is a stand-alone unit used to reduce the levels of Volatile Organic Compounds (VOCs) and viable airborne biological contaminants. The unit may be ducted in with a 16” tap for permanent installations or utilized as a roll-around, “point-of-use” air purifier.

The 2008B uses from one to four Pura Vida Air Systems PCP Compound panels. For example, a 2008B3 would have three panels installed. A UV shield is mounted between the catalyst and filter to provide protection from escaping UV radiation. The Pura Vida Air Systems 2008B is suitable for spaces up to 22000 ft³. For recommended unit configurations, contact Pura Vida Air Systems. All Pura Vida Air Systems products incorporate 3-step PCO technology: MERV Filtration, UVGI Lamps and Photocatalysis.



INSTALLATION

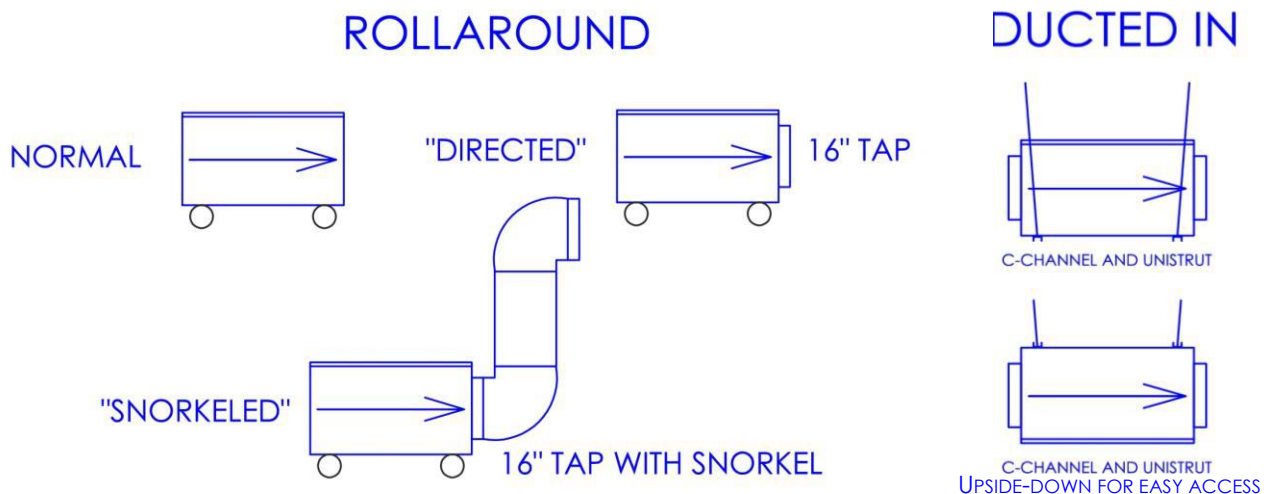
This unit is designed to be installed as a roll-around, portable unit or installed permanently suspended from the roof truss, beams or ceiling. Installation must be completed by competent personnel. **Pura Vida Air Systems assumes no liability for damages or injuries sustained from installations done by other than qualified Pura Vida Air Systems technicians.**

- If the unit is to be suspended, remove the casters if included. Also, if the unit is to be suspended upside-down for accessibility, the lid should include a pivot hinge from the factory.
- Determine a location for the 2008B unit, above the ceiling for drop-tile or in free air for warehouse, etc. Consider where your returns and supplies will be located,

with the B unit in between, clearance from permanent ductwork, beams, lights, sprinklers or other above-ceiling fixtures. Also, the B must be suspended from something, so make sure there is truss work above. Finally, the B unit is very large, a 24" x 48" opening (minimum) must be made in the ceiling grid. Find a location that would make this easy.

- If your unit has no Unistrut, attach Unistrut where the casters were. The Unistrut should extend 4" on either side of the B unit and be able to support 250 lb.
- If there is no place to bolt all-thread rods on the roof trusses where the B will hang, Unistrut must also be attached to the roof trusses. 3/8" All-thread can be bolted into the unistrut and left to hang.
- Using a material lift, lift the B into position. Run the all-thread through the Unistrut and bolt down, ensuring the unit is level and not twisted.
- Choose a location for the return/filter section close to the source of odors or biologicals. The filter section(s) should be installed in this general vicinity.
- Using a lift, ladder or scaffolding, remove a ceiling tile above the source next to the return grille. Use judgment here: there needs to be clearance from permanent ductwork, beams, lights, sprinklers or other above-ceiling fixtures.
- Lift the filter section up above the ceiling grid; you may have to angle the unit through. Once the unit is above the grid, set the unit onto the grid carefully. You should see the 4" particulate filter from the ground.
- Use the same guidelines to add more returns and supply(s).
- Attach ductwork. **Note: If ductwork is altered, installer must insure that no leakage of UV light occurs as a result of ductwork modifications!**
- Airflow is from the filter grille(s) to the filter side of the B unit, through the B to the fan side of the B unit, then out to the supply(s).
- Power up the B unit.
- Clean up your mess, and replace ceiling tiles.

VARIATIONS



MAINTENANCE

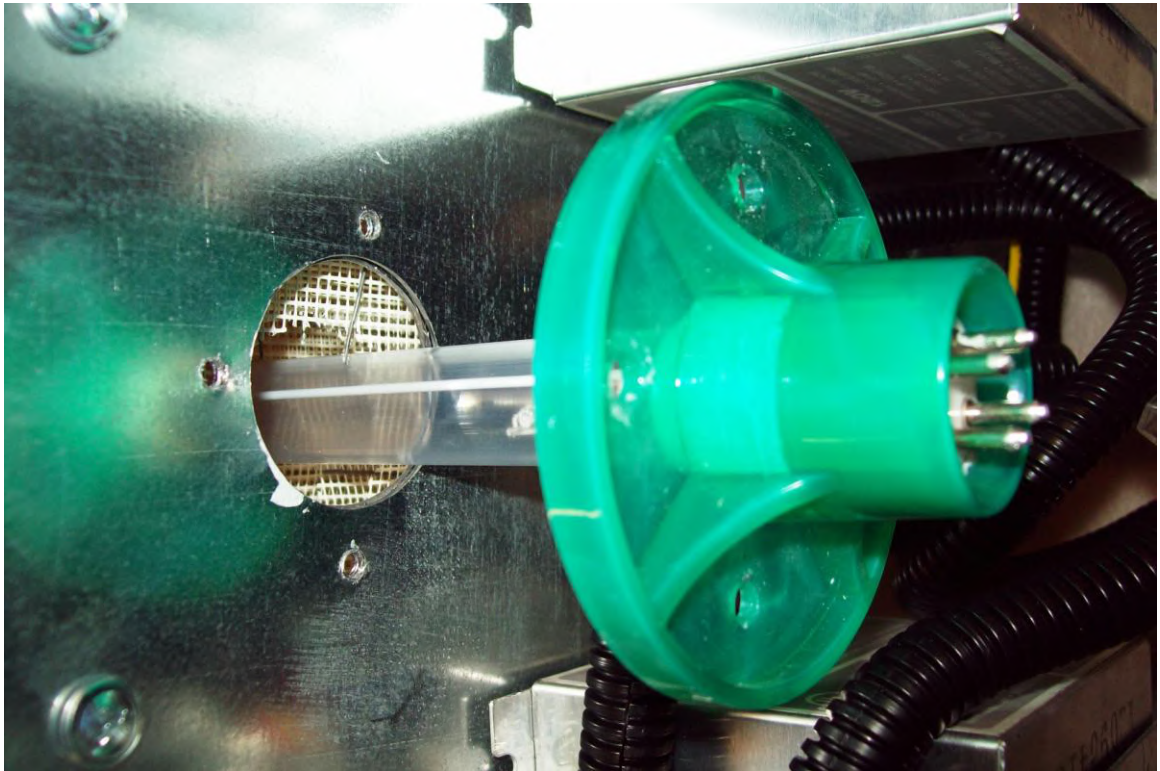
LAMPS

- ALL MAINTENANCE PERSONNEL MUST WEAR UV PROTECTIVE FACE SHIELDING. ALL EXPOSED SKIN MUST BE PROTECTED BY UV RESISTANT CLOTHING.

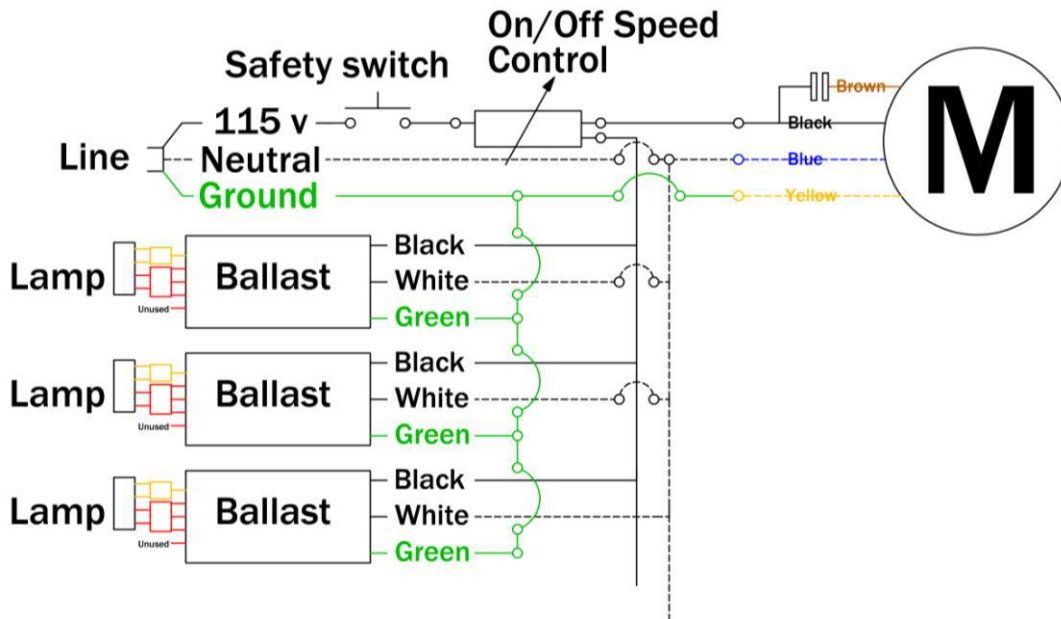
GENERAL

To operate effectively, the lamps must be replaced every 16 months, as the intensity of the lamps decreases over time. The catalyst must be energized by the lamps to create the field of hydroxyl radicals that is required to remove VOCs and biologicals. Without the proper lamp output, VOCs and biologicals will not be reduced!

INSPECTION



- **To inspect the lamps, the lamps must be powered off. Wear UV resistant face shielding and personal protective equipment!**
- The lid may be opened to examine the lamps. To do this, you must wear UV protection!
- Wearing UV protective clothing and safety glasses open the lid. Depress the safety switch and examine the lamps. In the above picture, notice the lack of intensity in the lamp that is not plugged in. Be sure that the speed control is not turned to the off position. If lamps are all lit, the Green Sleeves will emit a bright green glow. Reattach the lid.
- If a lamp is unlit, ensure the lamp is plugged in firmly to receptacle. If lamp remains unlit, replace the lamp with Pura Vida Air Systems GA20HO. If the new lamp does not light, the problem may be in the ballast or wiring. Call your Pura Vida Air Systems Representative for assistance.



To other PCP Compounds

REMOVAL

- **Power the Pura Vida Air Systems unit down using the kill switch or breaker to unit.**
- Remove the lid.
- Unplug the harness that connects the faulty lamp to the ballast.
- Unscrew the Green Sleeve mount from the base of the unit and remove lamp from the catalyst panel with a twisting motion so as not to deform the catalyst pleats. Retain screws.

DISPOSAL

- In most states and provinces, UVGI lamps may be disposed of in the same manner as fluorescent lamps. While UVGI lamps contain a trace amount of mercury, the quantity is so minute that disposal is not regulated by federal standards (established by the EPA). Individual states and provinces may have established disposal standards. Please adhere to your local regulations.

INSTALLATION

- Installation is the reverse of removal. The lamps are slowly twisted through the catalyst material until the Green Sleeve is resting against the ballast tray. If the lamp binds excessively against the catalyst, do not force. Remove and try again.
- Once the base of the lamp is against the tray, screw down the Green Sleeve base using the same holes as removed. Do not overtighten!
- The rest of installation is the reverse of removal.

CATALYST

- ALL UNITS MUST BE POWERED DOWN BEFORE SERVICING.
- ALL MAINTENANCE PERSONNEL MUST WEAR UV PROTECTIVE SAFETY GLASSES. ALL EXPOSED SKIN MUST BE PROTECTED BY UV RESISTANT CLOTHING.

GENERAL

Pura Vida Air Systems recommends catalyst replacement every 15 years to provide an efficient system. As debris and contaminants accumulate on the catalyst, the effectiveness of the catalyst is decreased. The catalyst must be inspected periodically for build up of particulate.

INSPECTION

- Turn off power to the 2008B unit. Unplug unit from service.
- Remove the lid.
- If the catalyst appears clean and free of particulate, congratulations! Otherwise, proceed to removal.

REMOVAL

- **If the catalyst will be cleaned and reused, keep track of orientation so they will be returned from the order they were removed. This will prevent installation problems.**
- Remove the lid, and then disconnect the harness that powers the catalyst.
- Remove panel from unit.

CLEANING

- If the catalyst needs cleaning, remove catalyst panel, then remove lamps. Proceed to a wash bay, mop sink or other washing area.
- Shake or brush heavy particulate from the catalyst.
- With the ballast tray facing upwards, spray catalyst liberally using Nu-Calgon CalClean, Special HD or other suitable coil cleaner on catalyst only. **Do not immerse ballasts in cleanser!** Allow to sit 15 minutes, and then wash off with water. **Do not immerse ballasts in water! Do not remove installation reminders!**
- Allow catalyst to dry completely before returning to service. May be dried in the sun.

DISPOSAL

- Individual states and provinces may have established disposal standards. Please adhere to your local regulations.

INSTALLATION

- Installation is the reverse of removal.

BALLASTS

The ballasts supply power to the lamps. They are located in the Pura Vida Air Systems PCP Drop-In catalyst panels. If a lamp is unlit and a new lamp attached to the same harness will not light, the ballast may be at fault. If a ballast failure is suspected, contact Pura Vida Air Systems for replacement options.

FILTERS

The filters help protect the catalyst and lamps from dirt and debris. They should be inspected and replaced regularly. Pura Vida Air Systems recommends MERV-13 or higher filters.

REPLACEMENT PART NUMBERS AND SCHEDULE

Lamps, catalyst and ballast should only be replaced by the Pura Vida Air Systems equivalent.

<u>REPLACEMENT PARTS</u>		
	DESCRIPTION	Pura Vida Air Systems PART NUMBER
BALLAST	Fulham WH-5	GA5
LAMPS	First Light 2813	GA20HO
FILTER	20" x 24" x 4" MERV 13	GA2024413
CATALYST	20" x 24" x 6"	GA2021PCP

UL DISCLAIMERS

- The health aspects associated with the use of this product and its ability to aid in disinfection of environment air have not been investigated by UL.
- Use only 20" First Light type T5 15 UVC Watt lamps.



Phone 210-867-3500
www.puravidaairstystems.com

LIMITED WARRANTY

FAILURE TO MAINTAIN YOUR EQUIPMENT WILL VOID THIS WARRANTY

Your PURA VIDA AIR SYSTEMS purification system is expressly warranted from the date of installation to be free from manufacturing defects for the coverage period stated below. Defective parts must be returned no later than thirty (30) days after the failure by you to the installing contractor together with the PURA VIDA AIR SYSTEMS purification system’s model number, serial number, and documented installation date of the PURA VIDA AIR SYSTEMS purification system.

ONE (1) YEAR COVERAGE -- RESIDENTIAL AND COMMERCIAL APPLICATIONS

The covered equipment and covered components are warranted by PURA VIDA AIR SYSTEMS for a period of ONE (1) year from the date of the original unit installation, when installed in a residential or commercial application. If during this period, a covered component fails because of a manufacturing defect, PURA VIDA AIR SYSTEMS will provide a free replacement part. You must pay shipping charges and all other costs of warranty service. PURA VIDA AIR SYSTEMS will not pay labor involved in diagnostic calls or in removing, repairing, servicing or replacing parts. Such costs may be covered by a separate warranty provided by the installer.

NOTE - If the date of original installation cannot be verified, the warranty period will be deemed to begin six (6) months after the date of manufacture.

EXCLUDED COMPONENTS

The following components are not covered by this warranty: the UVCGI lamps or the pleated photo catalytic material. These are replacement items, which must be replaced as stated in the Maintenance section of the installation instructions to ensure effective operation.

REPAIRS

All repairs of covered components must be made with authorized service parts by a qualified service dealer or contractor. Labor charges are not covered by this warranty.

WARRANTY LIMITATIONS

This warranty will be voided if the covered equipment is removed from the original installation site. This warranty does not cover damage or defect resulting from:

- 1 - Flood, wind, fire, lightning, or installation and operation in a corrosive atmosphere (chlorine, fluorine, salt, recycled waste water, urine, fertilizers, or other damaging chemicals).
- 2 - Accident, or neglect or unreasonable use or operation of the equipment, including operation of electrical equipment at voltages other than the range specified on the unit nameplate (includes damages caused by brownouts).
- 3 - Modification, change or alteration of the equipment, except as directed by PURA VIDA AIR SYSTEMS.
- 4 - Operation with system components (indoor unit and control devices), which do not match, or meet the specifications recommended by PURA VIDA AIR SYSTEMS.
- 5- Operation with system components (indoor unit and control devices), which exceed operational temperature range of -20 F to 122F.

THIS WARRANTY SHALL NOT OBLIGATE THE MANUFACTURER FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY THE INSTALLING CONTRACTOR AS CONTRASTED TO DEFECTS IN THE PURA VIDA AIR SYSTEMS PURIFICATION SYSTEM ITSELF. IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID COVERAGE PERIOD. THE MANUFACTURER’S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

To register your new PURA VIDA AIR SYSTEMS Purification System, PLEASE CUT ON DOTTED LINE AND RETURN THE REGISTRATION FORM TO THE ADDRESS NOTED BELOW.

Customer Registration Form

Customer Name: _____
 Address: _____
 City: State/Province: Zip/Postal Code: _____
 Home Phone: E-mail: _____
 Installing Contractor: Phone: _____
 Date of installation: Model Number: _____ Serial Number: _____

Please send this completed form to:
PURA VIDA AIR SYSTEMS
 207 Devine St.
 San Antonio, TX 78210