

1. Cut out shaded area of template
2. Place template on the return path of the HVAC system and trace the hole pattern for the unit and mark centers for mounting screws. Unit must be oriented so long dimension is parallel to the direction of the air flow.
3. Drill one 9/64" hole at each of these locations ⊕ for sheet metal screws.
4. Cut opening for the unit.
5. Install unit into air duct so that airflow matches direction indicated on side of unit using the four sheet metal screws provided.

## TROUBLESHOOTING

- Under normal operation the LED should light when the furnace blower is running.
- Both lamps operate from the same multivoltage ballast.

### **If the LED does not light:**

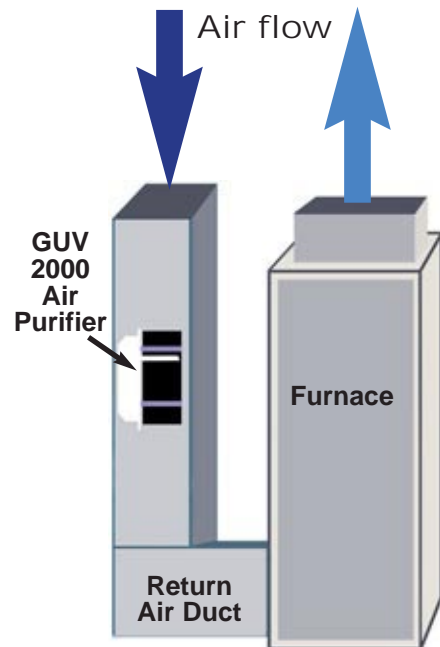
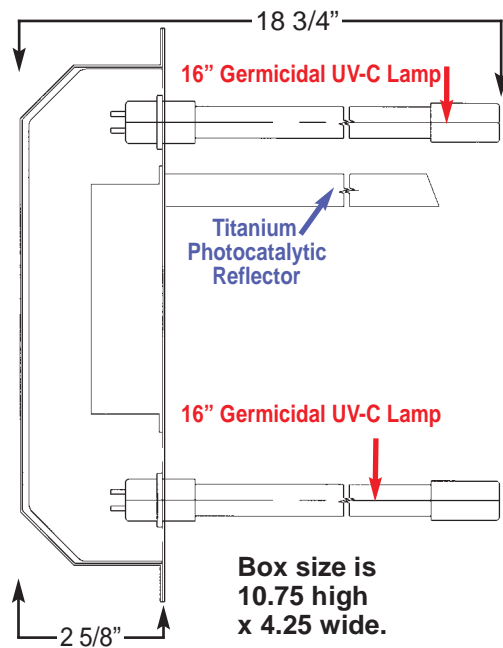
1. Check to be sure there is power to the unit.
2. Be sure lamp connectors are fastened securely.
3. If the LED still does not light, replace lamp(s).
4. If still not operating, replace ballast.

*(Please note standard off-the-shelf lamps are not compatible with this unit.*

*Use of improper lamps will void warranty.)*

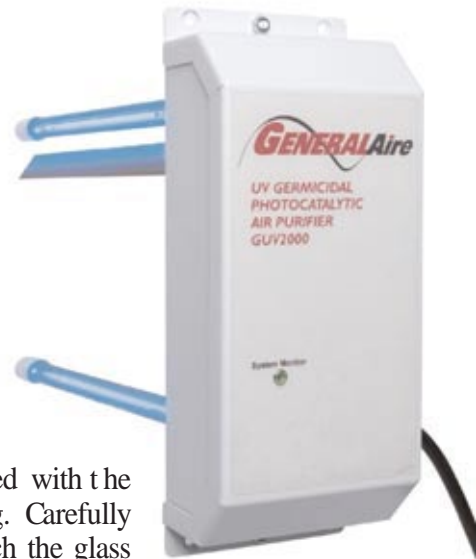
## WARRANTY

The manufacturer warrants the GeneralAire GUV2000 air purification unit against defects in materials and workmanship for a period of four (4) years from the date of installation. Lamps carry a warranty for the useful life of the lamp, two (2) years. This warranty does not cover broken lamps due to shipping, installation or handling. This warranty gives you specific legal rights and you may also have other rights which vary from state to state



# GENERALAIRE GUV-2000 Multivoltage Photocatalytic Air Purifier

## Installation & Maintenance Instructions



### **UNPACKING THE UNIT**

Each GeneralAire GUV2000 Air Purifier unit is shipped with the germicidal lamps placed in tubes with protective packaging. Carefully remove each lamp from the tube taking care to not touch the glass portion of the lamp with bare hands. Oils from the hands can cause “hot spots” which reduce lamp life. Handle by the porcelain caps or use a soft cloth. If you accidentally touch a lamp, wipe it off using a soft cloth dampened with rubbing alcohol. The lamp is fragile and proper care must be taken when removing from packaging.

Be sure all parts are included in the following list:

- GeneralAire GUV2000 Air Purifier
- Two 16” Germicidal Lamps (packed in tube)
- Four Sheet Metal Screws and two keps nuts
- Titanium Photocatalytic Reflector
- Installation & maintenance instructions

## IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed including the following:

- 1. READ AND FOLLOW ALL INSTRUCTIONS.**
- 2. SAVE THESE INSTRUCTIONS.**
- 3. Always be sure the unit is unplugged during installation or service procedures.**
- 4. The ultraviolet light produced by the UV lamps is harmful to your eyes. Do not look directly at the lamps. Should it become necessary to view the lamps, use UV-protected safety goggles.**

## INSTALLATION

- Best results are achieved when the unit is installed where the HXC system air temperature is most constant. Therefore, the preferred installation is on the *return side* of the furnace. If return side installation is not possible, install the unit on the supply side, keeping it as far from the heat/cooling source as possible, and in the main airstream.

- Do not locate the unit within 20" of any plastic material that will be directly exposed to the UV light, such as a return side humidifier or certain types of air filters. Check with the filter manufacturer to see if their material is UV resistant. Over time, UV light will degrade many plastic materials.

- Do not touch the glass portion of the lamps with bare hands because oils from the hands can cause "hot spots" which reduce lamp life. Handle either by the porcelain caps or use a soft cloth. If you accidentally touch a lamp, wipe it off, using a soft cloth dampened with rubbing alcohol.

1. Cut out the opening indicated by a dotted line on the installation template. (*See insert*)
2. Center template on the longitudinal axis of the plenum using tape to hold it in place. Trace the hole pattern for the unit and mark centers for mounting screws.

3. Cut opening for the unit and drill 9/64" holes for sheet metal screws.

4. Remove the cover from the unit using an 11/32 size nut driver to remove the top and bottom retaining nuts and set aside.

5. Attach the titanium reactor panel to back of unit as an inverted "V" to maximize airflow (as indicated in photo A.) Use an 11/32 size nut driver and the 8-32 keps nuts packaged with sheet metal screws and fasten securely

6. Attach unit to air duct using the four sheet metal screws provided.

7. Remove germicidal lamp holder (*Figure A*) using a 11/32 size nut driver.

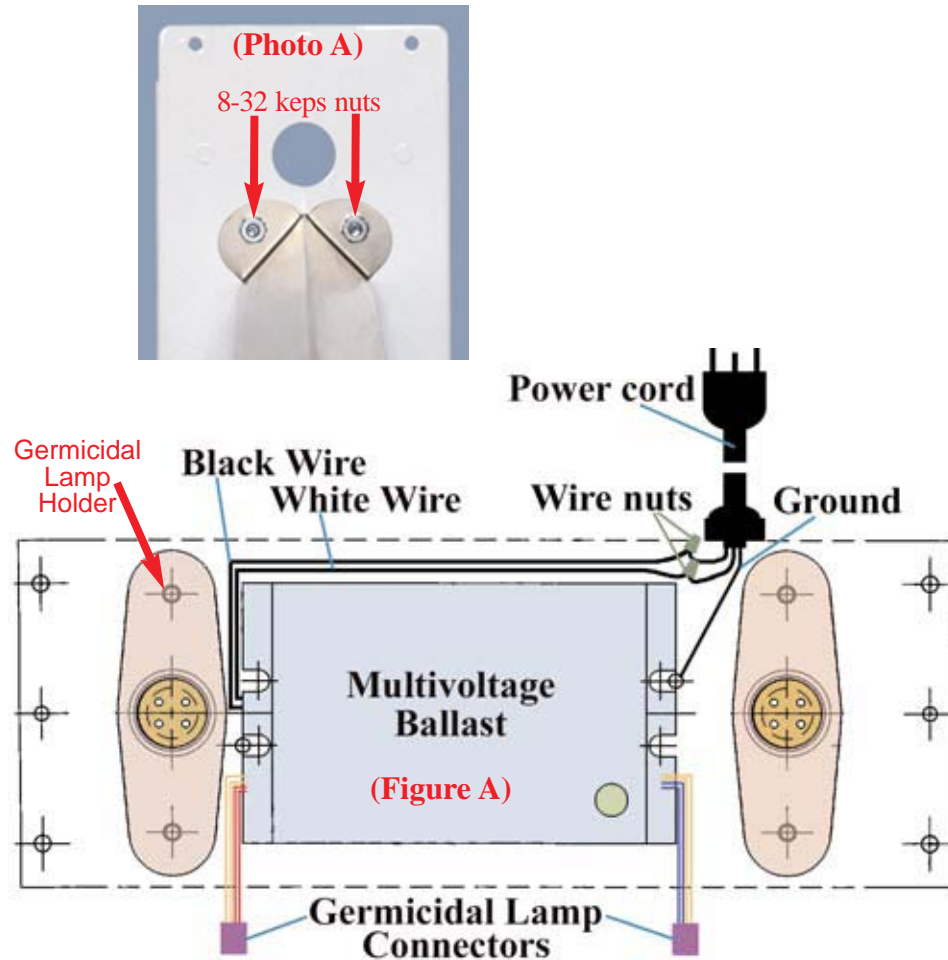
8. Slide germicidal lamp into lamp opening.

9. Reinstall lamp holder.

10. Plug in lamp connector to the end of lamp.

11. Repeat steps 6 thru 9 for second lamp.

12. Replace the cover and secure using the two retaining nuts.



## **WIRING**

Simply plug the unit into an 120VAC outlet and allow it to run continuously. The multivoltage ballast is self-adjusting and operates with voltages from 115 VAC through 277 VAC. For connecting to voltages higher than 120 voltsAC remove plug and wire in accordance with local wiring codes.

## **MAINTENANCE**

This maintenance schedule is only a guideline, determined by average conditions. Actual conditions will dictate the frequency of cleaning and/or replacement of lamps. Do not touch the glass portion of the lamps with bare hands because oils from the hands can cause “hot spots” which reduce lamp life. Handle either by the porcelain caps or use a soft cloth. If you accidentally touch a lamp, wipe it off, using a soft cloth dampened with rubbing alcohol.

**CLEANING THE LAMPS** - Recommended interval: 12 months (Follow procedure below)

**REPLACING THE LAMPS** - Recommended interval: 24 months. (Follow procedure below excluding #6.)

1. Unplug the power cord from the outlet, or disconnect power to the unit
2. Remove the cover from the unit using a 11/32 size nut driver to remove the top and bottom retaining nuts .
3. Unplug the lamp connector from the end of each lamp.
4. Remove lamp holders using a 11/32 size nut driver. (*Figure A*)
5. Remove each lamp by grasping the porcelain cap and extract carefully.
6. Using a soft cloth moistened with rubbing alcohol, wipe down each lamp. If there is a large build-up of dust particles, you may want to use a can of air first. Always handle lamps by end caps.
7. Slide one lamp back into lamp opening. Reinstall lamp holder
8. Repeat step 7 for second lamp.
9. Plug the lamp connector to the end of each lamp.
10. Replace and secure cover using the two retaining nuts.
11. Plug power cord back into outlet, or restore power to unit.

*Please note standard off-the-shelf lamps are not compatible with this unit.  
Use of improper lamps will void warranty.*