

GeneralAire® UV Air Purifier Model PCO2450 Spec Sheet

Specifications:

- **Model:** PCO2450 VectorFlo® UV Light Purifier (GFI #4840)
- **CFM:** Max 2000
- **Warranty:** 5 Years (Parts Only)
- **Replacement Lamp:** LT-50 (GFI#4448)
(Replace every 18,000 hours)
- **Do Not look directly at lamps with power on**
- **Do Not touch lamps with bare fingers**
- **Strength:** 50 Watt Germicidal H-Lamp
- **Bulb Length:** 16"
- **Lamp Intensity:** 135 $\mu\text{w}/\text{cm}^2$ @ 1 meter UVC Output Potency
- **Dimensions:** 8.5" W x 7.375" H x 18" D
- **Weight:** 4 Lbs.
- **Home Size:** To 4,000 Sq. Ft.
- **Installation:** Duct
- **Master Carton:** 8
- **Voltage:** 120V/240V Regulating Electronic Ballast (GFI #4881)
- **TiO₂ Semiconductor Surface Area:** 3,500 Sq. Inces
- **Static Pressure Increase:** <.02
- QuartzCoat® Durability
- **In Box:** PCO2450 VectorFlo®, UV Lamp, Installation Screws, Installation Manual, Installatin Template, Power Cord.



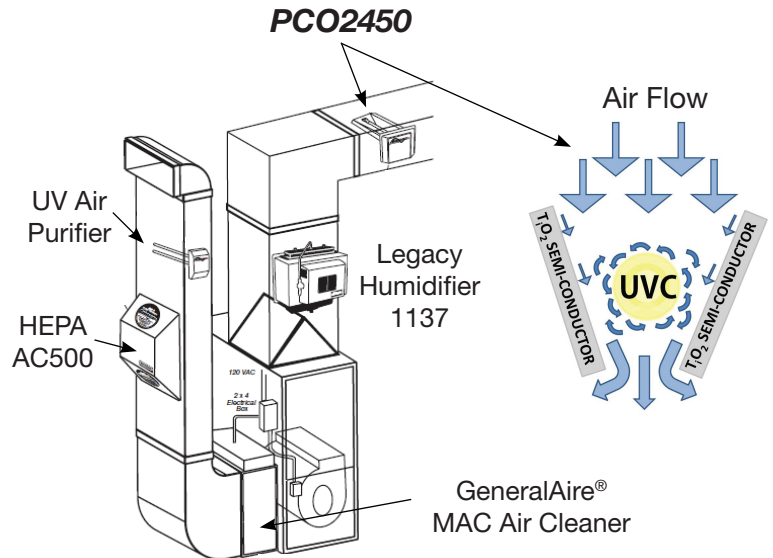
Wiring Illustration

Verify lamp operation by looking through the built-in site port.



Simply plug power cord into bottom of unit and any standard 120 Volt electrical outlet.

Typical Installation



Do not install within 24 inches (direct exposure) to plastic materials or air filters.

Installation:

Note: for best results, the HVAC air filter should be upgraded to a GeneralAire® high-performance pleated filter, if this has not already been done. The preferred installation is on the return air side of the HVAC system. If this is not practical, install the unit on the supply air side as far from the heating/cooling source as possible (in the primary air stream).

DO NOT locate the PCO 2450 within 24 inches (direct exposure) of plastic materials or air filters. UVC radiation will degrade many plastic materials over time with direct exposure.

1. The ballast is factory set to 120 VAC. The voltage can be changed in the field to 230 VAC by sliding the switch in **(Photo - A)** to the 220/230 volt position. The plug must be replaced and wiring must be done to applicable electrical codes.
2. Remove the front electrical cover from the PCO2450 and remove the (4) wing nuts in **(Photo - B)** that attach the unit to the Air Purifier's duct mounting plate.
3. Slide off the mounting plate and use it as a template by outlining inside cutout and (8) mounting holes with a pencil. Make sure *the wide portion of the mounting ring hole is facing the air stream*. Cut out the mounting hole from the duct and drill the (8) mounting holes with a 9/64 drill bit **(Photo - C)**.
4. Fasten the mounting plate to the duct by installing and tightening all (8) #12 sheet metal screws supplied and slide in the body of the PCO2450. Re-attach the (4) wing nuts, hand tight and replace the front cover.
5. Attach the quick connect power cord and plug in to any standard 120 volt electrical outlet. Verify lamp operation by looking through the site port on front cover. **(Photo - D)**. Continuous UV lamp operation is recommended. At .09¢ per kilowatt hour, continuous lamp operation costs 10.5¢ per day. Cycling the UV lamp on and off degrades lamp performance much faster and shortens the filament life.



(photo - A)



(photo - B)



(photo - C)



(photo - D)

Important Safety Sips

1. **ALWAYS** be sure the unit is unplugged during installation or service procedures
2. **DO NOT** touch bulbs with bare fingers. **DO NOT** leave fingerprints on UV lamp if you do touch bulbs with bare fingers. Clean with a dry cotton cloth and isopropyl alcohol prior to installation and use.
3. **EYE DAMAGE: NEVER** look at the UV lamp when illuminated without UV protected safety glasses.
4. The PCO2450 model Air Purifier has a built-in Site Port that is UV protected, making it safe to monitor UV lamp performance.