APCO-X reduces odors (volatile organic compounds) and biological contaminants such as mold, bacteria, viruses, and allergens in indoor air. The system is installed in the duct work of the central air system. The award-winning design of APCO-X uses a unique combination UV-C light and activated carbon to clean the air.

**APCO-X Dual additional parts**

**LED Status Indicator**
- Blue = Lamp status out
- Red = Lamp status good

**Attachments Unit to Duct & Mount UV Lamp**
1. Fit the APCO-X Main Unit through hole in duct if attaching directly to metal duct use 4 Self-tapping Screws. If the Backing Plate is used fit the unit over the threaded posts and use 4 Quick Nuts to secure it.
2. Insert UV Lamp.
3. Mount UV Lamp using 2 Quick Nuts and attach lamp connector (be sure to align the four connector pins).
4. Rotate the cover so it is oriented correctly then attach with thumb screws.

**3 Connect to Power**
- Use gasket to trace cut-line onto duct.
- 2 cut hole in sheet metal or duct board.

**4 Remote UV Lamp (3 Year)**
- To install APCO-X without backing plate mount to a licensed distributor in your area or the manufacturer.

**Power cord plug can be removed to expose lead wires for hard wire applications and will retain Intertek ETL Certification.**

**5 Lamp Replacement**
- The UV lamp in APCO-X (model TUVL-315) should be replaced every 3 years.

**Manufacturer’s Warranty:**
- Warranty supersedes and replaces any warranty statements orally made by the Sales Person, Distributor or Dealer or contained in the written instructions or other promotional or informational documents in relation to this product. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**What Does This Warranty Cover?**
- This Limited Transferable Warranty covers defects or malfunctions in material and workmanship under the normal use and service of this equipment.
- This Warranty does not cover parts damaged as a result of misuse, accident, or any use other than its intended use, accident, acts of God, neglect, or improper operation, maintenance, installation, modification or alterations. Systematic Environmental Inc. shall have no responsibility for changes incurred by the customer’s installation or removal of warranted items.

**What Does This Warranty Not Cover?**
- This warranty does not cover parts or equipment used with the Fresh-Aire UV system that are not manufactured by Systematic Environmental Inc.
- This warranty is void if UV lamps from manufacturers other than Triatomic Environmental, Inc. are used with this equipment.
- This warranty does not cover parts purchased from any source other than licensed HVAC or electrical contractors. This warranty does not cover parts purchased from anybody other than licensed HVAC or electrical contractors. This warranty does not cover parts purchased for any reason.

**What Does This Warranty Not Cover?**
- This warranty does not cover parts purchased from any source other than licensed HVAC or electrical contractors. This warranty does not cover parts purchased for any reason.

**How Does State Law Apply?**
- In order to be eligible for service under this warranty, you must return the warranty registration card or register online at www.freshaireuv.com.

**Parts List**
- **APCO-X Main Unit**
- **UV Lamp (3 Year)**
- **Duct Plate**
- **Gasket**
- **Thumb Screws (on cover)**
- **Power Cord (ER/DER Models)**
- **Screw-tapping Screws**
- **Quick Nut (plastic)**
- **Tap-in Connector**
- **Spade Connector**
- **APCO-X Dual only**
- **Remote UV Lamp (3 Year)**
- **2" Mounting Bracket**
- **Warning Sticker**
- **Glass Sight Glass**

**Important!**
- Only qualified technicians should install this product.
- Read instructions carefully including safety warnings.
- Install in accordance with relevant building codes.
- Follow instructions carefully including safety warnings.

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty.

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**US patent #7,704,463**

**NATIONAL INDOOR AIR QUALITY INSTITUTE (NIAQI)**

**IMPORTANT!**
- Connect to load side of 24 VAC transformer.

**Connect to Power**
- 24 VAC transformer is not included. Power cord plug can be removed to expose lead wires for hard wire applications and will retain Intertek ETL Certification.

**Power cord plug can be removed to expose lead wires for hard wire applications and will retain Intertek ETL Certification.**

**WARNING!**
- Protect eyes from UV light.
- Read instructions carefully including safety warnings.
- Install in accordance with relevant building codes.
- Follow instructions carefully including safety warnings.

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty.*

© Fresh-Aire UV

**© Fresh-Aire UV **

**APCO-X X-Man 8.22.19**
Optional 2nd Remote UV Light Installation Instructions

The optional Fresh-Aire Remote UV Light works with the APCO-X system for enhanced disinfection, reduced system maintenance, and improved indoor air quality.

**IMPORTANT!**
- APCO-X Dual lamps are wired in series - connect both for lamps to light
- Only qualified technicians should install this product
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

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### Installation Notes

Before installing the Fresh-Aire Remote UV Light it is necessary to determine the optimal mounting location inside the air system. First, look for the area with the heaviest mold growth. Also consider a location that will allow the germicidal UV light to shine on the greatest surface area.

Some typical mounting locations:
- Across top of coils
- Coil “A” plate
- Return-side duct

**WARNING**

PROTECT EYES FROM UV LIGHT
TURN OFF UNIT OR DISCONNECT BEFORE SERVICING

Important: some materials inside the air system (including filter media, flex duct, wiring etc.) may not be UV light resistant. Use the optional UV shield (part #TUV-SHIELD-LPC) or cover the materials with reflective tape.

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### Mounting Options

1. **Air Handler Interior Surface Installation**
   1. Determine the optimal position for placement of the UV lamp.
   2. Use a utility knife to cut a slit in the insulation on the interior surface.
   3. Place the magnetic “Z” bracket directly on the metal surface or remove the magnet and hard-mount the bracket using the self-tapping screws provided. Use foil tape to close the cut in the insulation.
   4. Use plastic quick-nuts to attach the UV lamp to the “Z” bracket as shown.

2. **Coil “A” plate or Duct Installation**
   1. Snap the “Z” bracket apart by bending.
   2. Drill a 1” hole in the “A”-plate or duct then attach the smaller piece of the bracket with self-tapping screws.
   3. Insert the UV lamp into the hole then use the plastic quick-nuts to attach the UV lamp to the “Z” bracket as shown.

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### Remote UV Light Configuration

IMPORTANT! Only the APCO-X Dual model has the electrical capacity and attached cable for the optional Remote UV Light.

Find the lamp cable on the right underside of the APCO-X Dual Power Unit.

Drill a 1” hole in the air system housing then pass the lamp cable through the hole then seal the hole with the rubber grommet to minimize air leakage.

To add a second UV light to an existing APCO-X system that is not a Dual model install a separate Fresh-Aire UV AHU Series 1 or Blue-Tube UV system.

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### Sight Glass Installation

1. Find a suitable location on the outside of the duct work near the UV Lamp installation and apply the Fresh-Aire UV® warning/lamp replacement sticker.
2. Drill a ½” hole through the circle on the sticker. Press the sight glass into hole.
3. Turn on the power and use the sight glass to confirm that the UV Lamp is operating.

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### Lamp Replacement

The second germicidal UV lamp included with APCO-X Dual models should be replaced every three years along with the primary lamp.

**Note:** The UV lamps may continue to emit visible after three years, however, germicidal effectiveness falls off over time and will quickly drop to near zero after three years.