### APCO-X Dual parts additional parts

- **APCO-X Main Unit**
- **UV Lamp (3 Year)**
- **Duct Plate**
- **Gasket**
- **Thumb Screws (on cover)**
- **Power Cord (ER/DER Models)**
- **Tapping Screws**
- **Quick Nut (plastic)**
- **Tap-in Connector**
- **Spade Connector**
- **APCO-X Dual only**
- **Remote UV Lamp (3 Year)**
- **Mounting Bracket**
- **Mounting Stickers**
- **Sight Glass**

### Installation Notes

APCO-X is usually installed on the supply side duct just above the air system (upstream of a humidifier if there is one). But can also be installed on the return side if necessary.

The APCO-X unit should be oriented so that the air flows past the UV Light first then into the Matrix Element. Position the APCO-X unit so UV Light shines on the cooling coil.

If a second optional UV lamp is used (APCO-X Dual) select a location inside the air system that will allow it to shine on the greatest surface area or the area with the most evident microbial growth. To install the secondary UV light use the Optional 2nd Remote UV Light Installation Instructions provided with APCO-X Dual.

### LED Status Indicator

**Blue** = Lamp status good

**Red** = Lamp status out

### Attach Power 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.

### Duct Mounting

1. Use gasket to trace cut-line onto duct.
2. Cut hole in sheet metal or duct board.

**IMPORTANT!**

- Remove and dispose of cut-out piece of material.
- For sheet metal secure mounting plate using self-tapping screws.
- Remove paper backing from one side of gasket and fix gasket to the back of the mounting plate.
- Remove paper backing from back of gasket then fix mounting plate and gasket to the duct.
- Bend mounting plate flanges around the edges of the hole to secure mounting plate. For duct board use tape on edges of mounting plate for air leaks and additional hold.

*To install APCO-X without backing plate use a 4 pin self-tapping screw.*

### Connecting to Power

**IMPORTANT!**

Before connecting to power confirm which APCO-X model is being installed. Turn off main power source before installation. Always use proper conduit fittings and terminations. Model information is printed on the Power Unit cover.

**IMPORTANT! Must be wired to constant power - do not connect to blower relay.**

### Manufacturer’s Warranty

- Warranty is for the equipment or parts covered up to the date of installation. This warranty does not cover parts damaged as a result of misuse, abuse, or any use other than its intended use, accident, acts of God, neglect, improper repair or replacement of any part or component of the equipment herein and shall not be liable for consequential or any other damages whether or not caused by manufacturer’s negligence or resulting from any express or implied warranty or any other statement by manufacturer.

### How Do You Get Service?

- To keep your warranty valid all service work must be performed by a licensed HVAC or electrical contractor.

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

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**Note:** Use of replacement UV lamps other than Fresh-Aire UV® voids warranty.
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

### 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.

### 3. 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.

### 4. 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.

### 5. 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.