**Installation Notes**

APCO® 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 unit should be oriented so that the airflow passes the UV light first then into the Matrix Element. Position the APCO unit so the UV light does not shine directly on non-uv-resistant materials (filters, humidifiers, flex duct, etc.). If possible, orient APCO so UV light shines on the cooling coils. If a second optional UV lamp is used (APCO 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 Dual. Typical installations include:

- Furnace installation
- Air handler installation
- Attaching Power Unit to Duct & Mount UV Lamp
- Connect to load side of 24 VAC transformer

**Lamp Replacement**

The germicidal UV lamp in APCO needs to be replaced periodically. TULV115 lamps should be replaced every year. TULV215 should be replaced every 2 years. Note: UV lamps will continue to emit visible light but lose germicidal effectiveness over time. You can upgrade to a 2-year lamp with your existing APCO Power Unit.

**Duct Mounting**

1. Use gasket to trace cut-line onto duct.
2. Cut hole in sheet metal or duct board.
3. Install the 24 VAC transformer using the correct screws and additional hold.
4. Bend mounting plate flanges around the edges of the duct to secure mounting plate. For duct board use tape on edges of mounting plate for air leaks and additional hold.

**Connecting to Power**

Before connecting to power confirm which APCO 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.

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**Manufacturer's Warranty:**

This warranty supersedes and replaces any warranty statements orally made by the Sales Person, Distributor or Dealer or contained in the written instructions or other brochures or informational documents in relation to the product. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State. What will Triatomic Environmental, Inc. do?

1. For as long as you own the real property where the product is installed.
2. TUVL-1XX Series Ultraviolet Lamp for as long as you own the real property where the product is installed.

**What Does This Warranty Not Cover?**

This warranty does not cover products or parts purchased from any source other than licensed HVAC or electrical contractors. This warranty does not cover parts purchased installed by a third party after the date of installation. The warranty does not cover parts damaged as a result of abuse, misuse, alteration, acts of God, neglect, improper installation, repair or modification or any other factor which results in the failure of the equipment. This warranty does not cover parts or equipment which are not manufactured by Triatomic Environmental, Inc. for and with this equipment. This warranty does not cover parts or equipment which are not manufactured by the manufacturer for and with this equipment. Consequential and incidental damages are not recoverable under this warranty. Manufacturer assumes no liability for use, improper installation, repair or alteration whether or not such installation, repair or alteration is by the manufacturer or any other person.

**Connection to Power Unit**

1. Connect to load side of 24 VAC transformer
2. Connect to load side of HVAC

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**Parts List**

- APCO® Main Unit
- UV Lamp 1 Year*
- UV Lamp 2 Year*
- Duct Plate
- Gasket
- Power Cord (ER Model)
- Self-tapping Screws
- Quick Nut Plugs
- Machine Screws (on cover)
- Tap-in Connector
- Spade Connector
- Optional Remote UV Lamp 1 Year
- Optional Remote UV Lamp 2 Year
- Light Glass
- 2” Mounting Bracket
- Warning Sticker

*Note: only one lamp is included with APCO.

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**Connection to Power Unit**

1. Connect to load side of 24 VAC transformer
2. Connect to load side of HVAC

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Optional 2nd Remote UV Light Installation Instructions

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

**IMPORTANT!**
- APCO Dual lamps are wired in series - both must be connected 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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### 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.

### 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 using the 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.

### Remote UV Light Configuration
**IMPORTANT!** Only the APCO Dual model has the electrical capacity and attached cable for the optional Remote UV Light. Simply connect the lamp lead to the power cable on the left side of the APCO Power Unit.

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

### 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 orange circle on the sticker. Press the UV safety viewport into hole.
3. Turn on the power and use the sight glass to confirm that the UV Lamp is operating.

### Lamp Replacement
The germicidal UV lamp in the Fresh-Aire Remote UV Light needs to be replaced periodically. A TUVL-115P lamp should be replaced every year. The TUVL-215P should be replaced every 2 years. Note: UV lamps will continue to emit visible light but lose germicidal effectiveness over time. You can upgrade to a 2 year with your existing power supply.

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**CAUTION!**
UV lamps contain small amounts of mercury - dispose of lamps in accordance with local environmental regulations. For more information visit www.lamprecycle.org

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