**Installation Guide**

**APCO® RT** reduces odors (volatile organic compounds) and biological contaminants such as mold, bacteria, viruses, and allergens in indoor air. The system is installed in the ductwork of the central air system. The award-winning design of APCO® RT uses a unique combination UVC light and activated carbon cells to clean the air.

### Installation Notes

APCO® RT is usually installed on the supply side duct just above the air system but can also be installed on the return side if necessary. The APCO® RT unit should be oriented so that the air flows past the UV Light first then into the Matrix Element.

If a second optional UV lamp is used (APCO® RT 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® RT Dual.

Typical installations include:

1. APCO RT single in air handler
2. APCO RT dual in air handler
3. APCO RT single in Furnace
4. APCO RT dual in Furnace

### Attach Lamp Housing to Duct & Connect UV Lamp

1. Fit the APCO® RT Main Unit through hole in duct. Attach directly to metal duct using (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. Connect UV Lamp (be sure to align the four connector pins).
3. Attach the cover with machine screws.

### duct Mounting

1. Use gasket to trace cut-line onto duct.
2. Cut hole in sheet metal or duct board.
3. For sheet metal duct secure mounting plate to sheet metal ducts using self-tapping screws.*
4. Remove paper backing from one side of gasket and fix gasket to the back of the mounting plate.
5. Remove paper backing from back of gasket then fix mounting plate and gasket to the duct.
6. 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® RT without backing plate mount with (4) self-tapping screws.

### Connecting to Power

**IMPORTANT**

Before connecting to power confirm which APCO® RT model is being installed. Turn off main power source before installation. Model information is printed on the Power Unit cover.

**Manufacturer’s Warranty:**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**How Do You Get Service?**

1. Call our Customer Service Department at 800-835-0969, or ask your licensed HVAC contractor to call us. The Customer Service Department can help you determine what, if any, warranty service is available for your equipment. Customer Service cannot authorize repairs or warranty replacements, but we can list the repair service provider who will perform the service for you.*

2. Remove the defective or malfunctioning part from your equipment. Please note that the warranty does not cover labor or repair of your equipment. You must pay for all labor costs as well as the parts.

3. Send your equipment to a licensed distributor in your area or the manufacturer.

**What Does Triatomic Environmental, Inc. Do?**

1. Replace any defective or malfunctioning part at no charge. You must pay any labor charges and shipping charges of defective parts to Triatomic Environmental, Inc.

**What Does the Warranty Cover?**

The lifetime limited manufacturer warranty covers any defects or malfunctions in material and workmanship under the normal use and service when operated and maintained in strict accordance with manufacturer’s instructions for the lifetime of the equipment.

**What Does the Warranty NOT Cover?**

1. Damage due to failure to follow manufacturer’s instructions (including minor damage due to corrosion).
2. Damage due to use of the equipment in any manner other than that for which it is designed.
3. Damage due to unauthorized repair of the equipment.
4. Damage caused by failure to replace lamps in a timely manner.
5. Damage due to failure to replace the lamps on a timely basis.
6. Damage due to the use of unauthorized replacement parts.

**EXCLUSION OF LIABILITY:**

The design, manufacture, and sale of the APCO® RT is subject to the following: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**IMPORTANT**

This warranty shall be void if UV lamps from manufacturer’s other than Triatomic Environmental, Inc. are used with this equipment.

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Optional 2nd Remote UV Light Installation Instructions

The optional Fresh-Aire Remote UV Light works with the APCO® RT 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

### 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.

### 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 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.

### 3. Remote UV Light Configuration
**IMPORTANT!** Only the APCO® RT 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® RT 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 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.

### 5. Remote UV Lamp Connection
1. When all the other components are properly installed connect the UV Lamp cable to the APCO® RT Power supply cable.
2. Make sure the flanges are aligned and then push the connectors firmly together. A tight connection ensures a proper water-resistant seal.

### 6. 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.