Blue-Tube UV Light Installation Instructions

Blue-Tube UV is installed inside the air handling system to reduce biological contamination for reduced system maintenance and improved indoor air quality.

**Parts Included**
- A UV Lamp
- B Power Supply
- C UV Warning Sticker
- D “Z” Mounting Bracket
- E Self-Tapping Screws
- F Sight Glass
- G Tap-in Connector
- H Quick-Nut (plastic)
- I Spade Connectors

**Installation Notes**
Before installing Blue-Tube UV 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. For enhanced anti-microbial effect 2 or more lamps can be installed in different parts of the air system.

Some typical mounting locations:
- A Supply-side duct
- B At the blower
- C Across top of coils
- D Coil face
- E Coil “A” plate
- F Return-side duct

**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 Installation**

1. Snap the “Z” bracket apart by bending.
2. Drill a 1” hole in the “A”-plate 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.
**Power Supply Installation**

**IMPORTANT!** Check which power supply is included with your Blue-Tube UV® before connecting to power. Turn off main power source before installation.

1. Find a suitable location for the power supply 1. inside the control panel of the air handler. Install using the self-tapping screws.

2. Use the wiring diagrams below to connect to power. The low voltage power supply (18 to 32 VAC) is marked “ER”. The high voltage (120 to 277 VAC) power supply is marked “ST”.

3. Lamp Replacement

   The germicidal UV lamp in Blue-Tube UV® needs to be replaced periodically. TUVL-115P & TUVL-115P-OS & (odor control) lamps should be replaced every year. TUVL-215P and TUVL-215P-OS 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 and/or odor control lamp with your existing power supply.

   **Note:** Use of replacement UV lamps other than Fresh-Aire UV® voids warranty. **Caution:** UV lamps contain small amounts of mercury - dispose of lamps in accordance with local environmental regulations. For more information visit www.lamprecycle.org

**UV Lamp Connection**

1. When all the other components are properly installed connect the UV Lamp cable to the 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.

**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**

For systems with high 24 VAC loads may require the installation of a separate 24 VAC transformer to power the UV light.

**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 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 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 accord with manufacturer’s instructions for the lifetime of the equipment.

**What Will Triatomic Environmental, Inc. Do?** Triatomic Environmental, Inc. will replace any defective or malfunctioning part at no charge. You must pay any labor charges and shipping charges of defective product to our warranty department.

**What Does This Warranty Not Cover?** This PRODUCT IS NOT INTENDED TO BE PURCHASED AND INSTALLED BY UNLICENSED HVAC OR ELECTRICAL CONTRACTORS. 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 installed by unlicensed HVAC or electrical contractors. 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, or from improper operation, maintenance, installation, modification or adjustments. Triatomic Environmental, Inc. shall have no responsibility for charges incurred by the customer for installation or removal of warranted items. This warranty does not cover parts or equipment used with the Fresh-Aire UV system that are not manufactured by Triatomic Environmental, Inc.

**How Do You Get Service?** In order to be eligible for service under this warranty you MUST return the warranty registration card or register online at www.freshaireuv.com. If something is wrong with your product, call your installing contractor to receive a Return Merchandise Authorization (RMA) and instructions for returning the product to a licensed distributor in your area or the manufacturer.

**How Does State Law Apply?** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.