**GERMICIDAL UV LIGHT INSTALLATION INSTRUCTIONS**

The germicidal UV light is installed inside the air handling system to reduce biological contamination for reduced system maintenance and improved indoor air quality.

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

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty. © Fresh-Aire UV

**WARNING!**
- PROTECT EYES FROM UV LIGHT
- TURN OFF UNIT OR DISCONNECT BEFORE SERVICING

*Parts included with your kit will vary depending on model.

**STEP 1: UV Lamp Installation**

**Surface Mount**
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 Mount**
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.

**PARTS**

A. PART: TUVL-115P  LIFE: 1 Year

B. PART: TUVL-215P  LIFE: 2 Year

C. “ER” 18 - 32 VAC Power Supply

D. “ST” 110 - 277 VAC Power Supply

E. “DT” 110 - 277 VAC Power Supply

F. “NEMA-R3” 110 - 277 VAC Power Supply

G. Self-tapping Screws

H. Quick Nuts (plastic)

I. Tap-in Connectors

J. Spade Connectors

K. Panel sticker

L. Sight Glass

M. Magnet mount

N. Self-tapping Screws

**US patent #7,704,463**
**STEP 2: Power Supply Installation**

**IMPORTANT!** Check which power supply is included with your germicidal UV light before connecting to power. Turn off main power source before installation.

1. Find a suitable location for the power supply inside the control panel of the air handler. Install using the self-tapping screws.
2. Use the wiring diagrams to connect to power.

The low-voltage power supply connects to the air system’s 24 VAC transformer (or add a 24 VAC transformer as needed).

Line-voltage power supplies connect directly to 120-277 VAC power.

Some line-voltage power supplies can support more than one UV lamp. They will come with two or more blue cables.

**STEP 3: Lamp Connection**

Connect lamp: make sure the flanges are aligned and then push the connectors firmly together. A tight connection ensures a proper water-resistant seal.

**STEP 4: UV Warning Sticker & Safety Sight Glass**

1. Find a suitable location on the outside of the duct-work near the UV Lamp installation and apply the Fresh-Aire UV® warming/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.

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**Lamp Replacement**

Germicidal UV lamps need to be replaced periodically. Systems will include one-year (TUVL-1xx), or two-year (TUVL-2xx) UV-C lamps.

Note: UV lamps will continue to emit visible light but they lose germicidal effectiveness over time. One-year and two-year lamps are interchangeable, you can upgrade to a two-year lamp with your existing power supply.

**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.

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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 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 accordance with manufacturer’s instructions for the lifetime of the equipment.

**How Long Does The Coverage Last?**

1) Power Supply: For as long as you own the real property where the product is installed. 2) TUVL-1XX Series Ultraviolet Lamp is warranted for germicidal output for one-year from the date of installation. 3) TUVL-2XX Series Ultraviolet Lamp is warranted for germicidal output for two (2) years from the date of installation. This warranty is not transferable.

**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 parts or products purchased from any source other than licensed 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 any costs 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.

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

Consequential and incidental damages are not recoverable under this warranty. Manufacturer assumes no liability for any harm, which may occur as a result of the use 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 breach thereof. Consequential damages for the purpose of this warranty shall include, but not be limited to, loss of use, income or profit, or loss of or damage to property or injury or death to persons or animals occasioned by or arising out of operation, use, the operation, installation, repair or replacement of the equipment or otherwise. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We reserve the right to change any of the above warranty policies at any time. If any policy is changed, we will change the policy on our warranty registration card and website. Therefore, you should check the expiration date on your warranty registration card and website for any policy changes. For any questions about warranty policies, contact Triatomic Environmental, Inc. at 800-741-1195 or sales@freshaireuv.com.

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**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.

Once the product is returned, we will inspect your product and contact you within 10 business days of the receipt of the product to give the results of our inspection. If we determine that the product is covered under this warranty, we will ship to you at no additional cost a replacement part. Replacement parts may be refurbished. If we determine that the product is not covered under this warranty, or that this warranty is void, the product will be returned to you COD. There is no charge for inspection.

**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.