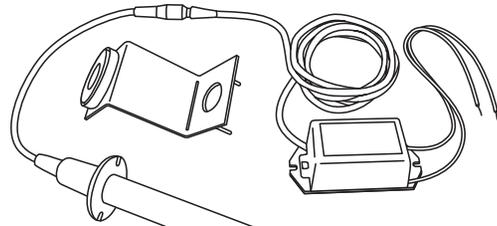


Germicidal UV Light Installation Instructions

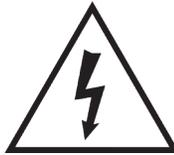
**Blue-Tube UV
Blue-Tube X
AHU Series 1**



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



US patent #7,704,463



IMPORTANT!

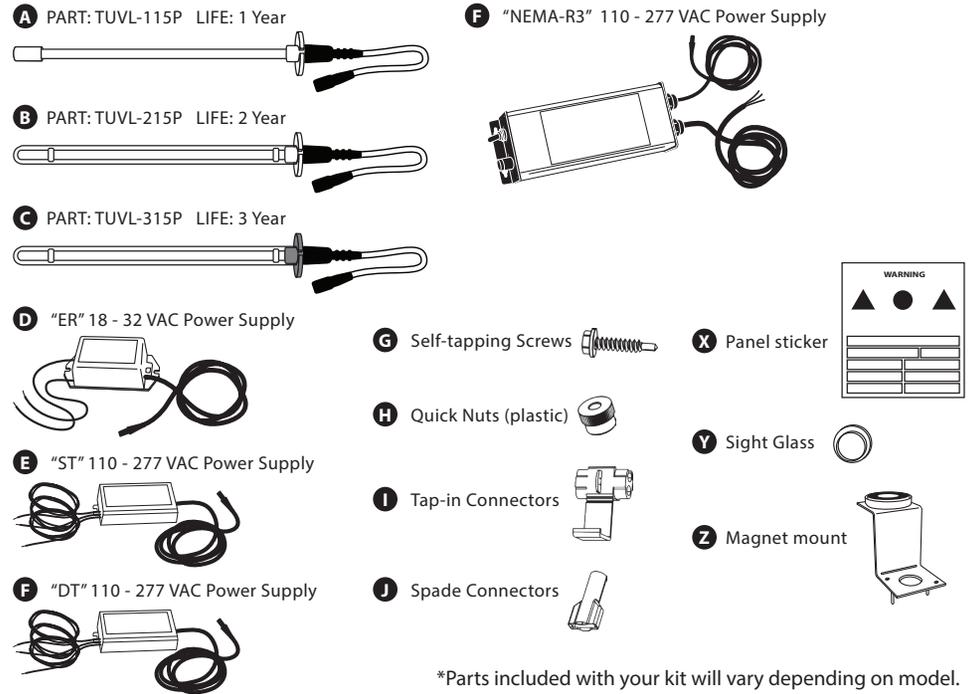
- Only qualified technicians should install this product*
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

WARNING!

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

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

PARTS*

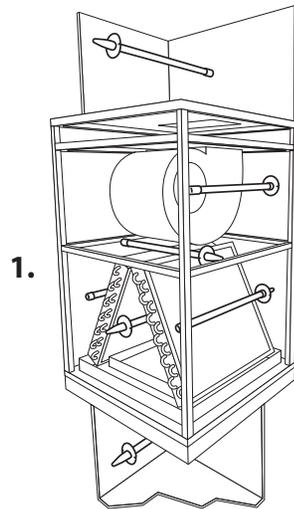
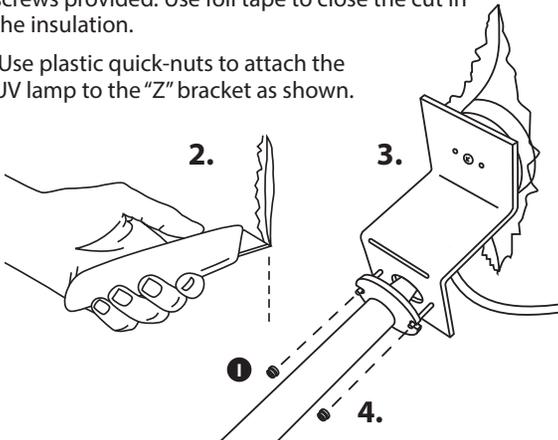


*Parts included with your kit will vary depending on model.

STEP 1: UV Lamp Installation

Surface Mount

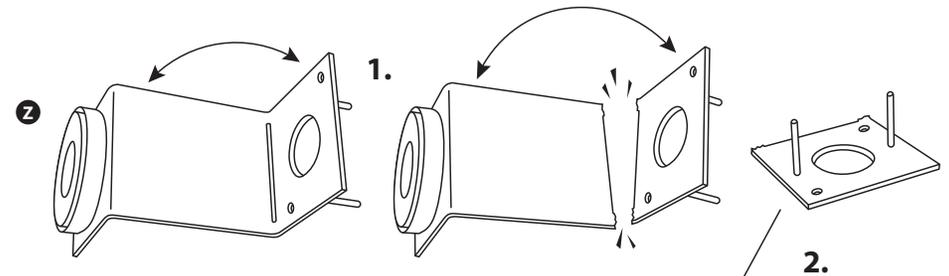
1. Determine the optimal position for placement of the UV lamp.
2. Use a utility knife to cut a slit in the insulation on the interior surface.
3. Place the magnetic "Z" bracket directly on the metal surface or remove the magnet and hard-mount the bracket using the self-tapping screws provided. Use foil tape to close the cut in the insulation.
4. Use plastic quick-nuts to attach the UV lamp to the "Z" bracket as shown.



Typical UV lamp locations

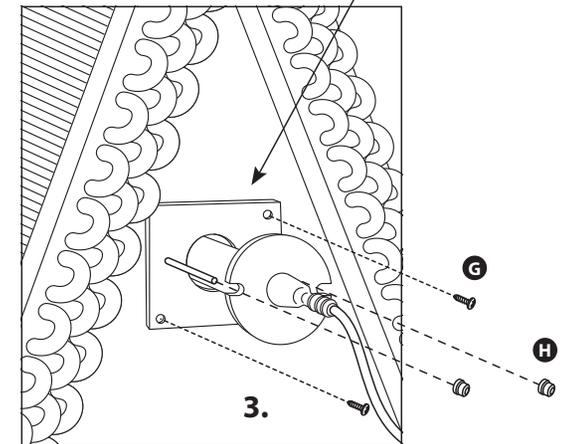
Important: some materials inside the air system (including filter media, flex duct, wiring etc.) may not be UV light resistant. Use the optional UV shield (part #TUV-SHIELD-LPC) or cover the materials with reflective tape.

STEP 1: UV Lamp Installation Cont.



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.



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.

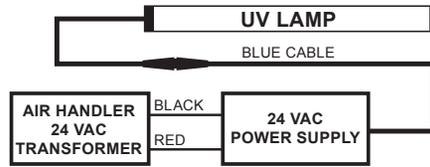
1. Find a suitable location for the power supply inside the control panel of the air handler. Install using the self-tapping screws.

2. Use the wiring diagrams to connect to power.

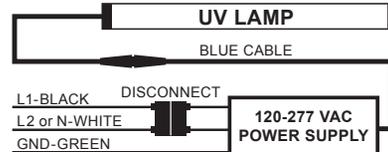
The low-voltage power supply connects to the air system's 24 VAC transformer (or add a 24 VAC transformer as needed).

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

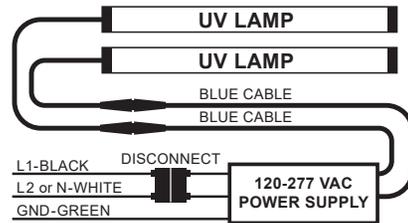
Some line-voltage power supplies can support more than one UV lamp. They will come with two or more blue cables.



"ER" low-voltage single lamp wiring



"ST" line-voltage single lamp wiring



"DT" & "NEMA-R3" line-voltage dual lamp wiring

STEP 2: Power Supply Installation Cont.

IMPORTANT!

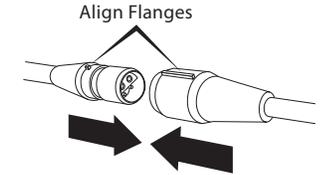
Systems with high 24 VAC loads may require the installation of a separate 24 VAC transformer to power the UV light.

Always use a separate 24 VAC transformer with "communicating" air systems.

Draws 16 VA, may need to do load calculation: Volts under load X Amps under load.

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® 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.

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

Lamp Replacement

Germicidal UV lamps need to be replaced periodically. Systems will include one-year, two-year, or three-year UVC lamp(s).

Note: UV lamps will continue to emit visible light but they lose germicidal effectiveness over time.



PART: TUVL-115P LIFE: 1 Year



PART: TUVL-215P LIFE: 2 Years



PART: TUVL-315P LIFE: 3 Years

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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