

INSTALLATION GUIDE

Actively improves the indoor air quality and HVAC equipment efficiency within the home or building. AKTIV8™ neutralizes biological contaminants such as mold, bacteria and viruses that circulate throughout the ventilation system. Is highly effective in helping to maintain a clean coil free from odor-causing & efficiency-robbing mold and biofilm.

IMPORTANT!

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

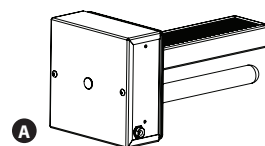
WARNING!

PROTECT EYES & SKIN 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 LIT-FAUV-AKT8-MAN 110223

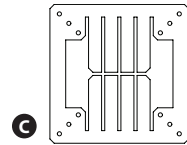
PARTS LIST



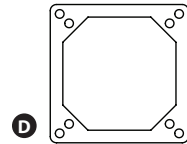
Main Unit



Power Cord (ER Model)



Duct Mount Plate



Duct Mount Gasket

SMALL PARTS



Self-tapping Screws



Machine Screws



Quick Nut (plastic)



Tap-in Connector (ER/DER Models)

AKTIV8 LAMP

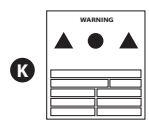


Main Unit UV Lamp - Blue Base
PART: TUVL-211P-OS-N9
Replace after 2 years

SECONDARY UV LIGHT (DUAL SYSTEM)



Remote UV Lamp - White Base
PART: TUVL-211P
Replace after 2 years



Panel Sticker

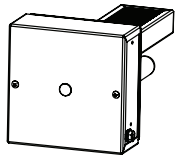


Sight Glass



Magnet Mount

AKTIV8 Installation

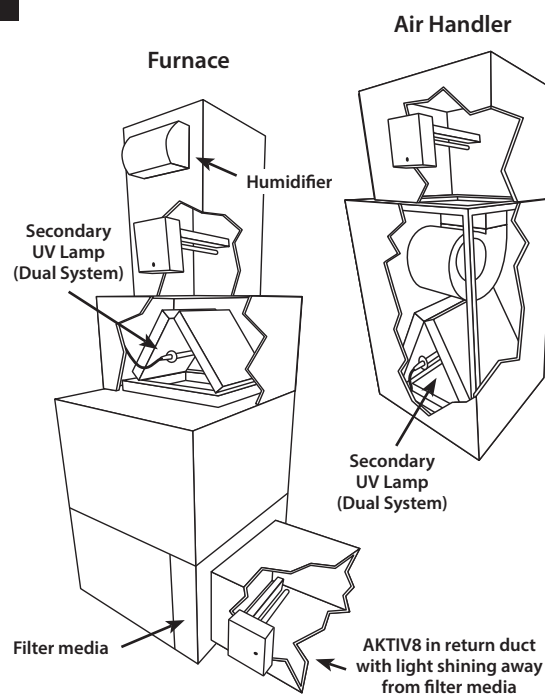


The main unit is typically installed on the supply side duct just above the air system (upstream of a humidifier). It can also be installed on the return side if necessary.

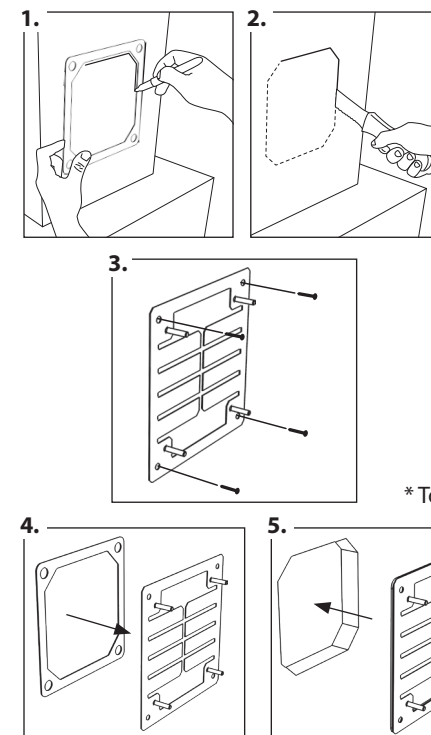
Orient so the air flows past the UV light first before the carbon. Position the unit so the UV light does not shine directly on non-uv-resistant materials (filters, humidifiers, flex duct, etc.). Ideally the UV light shines on the coil.

For dual systems select a remote UV light location that shines on the greatest surface area or the area with the most microbial growth.

Typical Installation Locations



STEP 1: Duct Mounting



1. Use gasket **D** to trace cut-line onto duct.

2. Cut hole in sheet metal or duct board.

IMPORTANT! Remove and dispose of cut-out piece of material.

3. For sheet metal duct secure mounting plate **C** to sheet metal ducts using self-tapping screws **E**.*

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 without backing plate use (4) self-tapping screws.

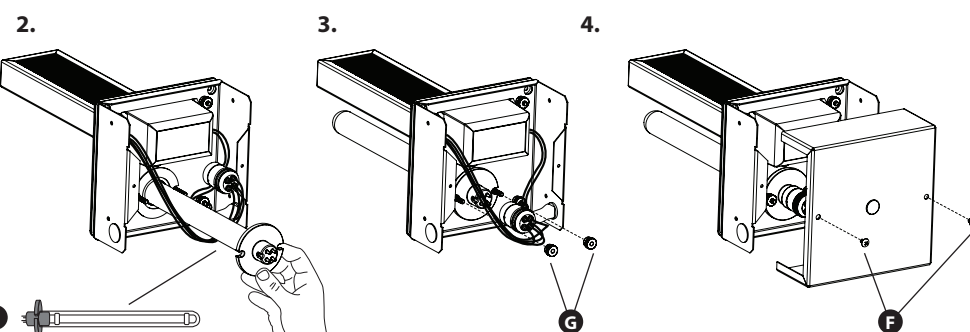
STEP 2: Main Unit & UV Lamp Mounting

1. Fit the Main Unit through hole in duct. If attaching directly to metal duct use (4) Self-tapping Screws. If the Backing Plate is used fit the unit over the threaded posts and use (4) Quick Nuts **G** to secure it.

2. Insert AKTIV8 Lamp.

3. Mount UV Lamp using (2) Quick Nuts and attach lamp connector (be sure to align the four connector pins).

4. Attach the cover with machine screws **F**.

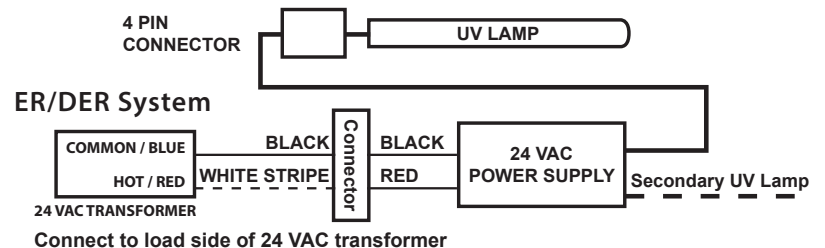


Main Unit UVC+ Lamp - Blue Base
PART: TUVL-211P-OS-N9
Replace after 2 years

STEP 3: Connecting to Power

IMPORTANT: Before connecting to power confirm which 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.

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



STEP 4: Replace the AKTIV8 UV lamp every 2 years.

Note: UV lamps may continue to emit visible light after two years, however, germicidal effectiveness decreases over time. After two years of operation the UV lamp should be replaced. Never expose eyes or skin to direct UV light.



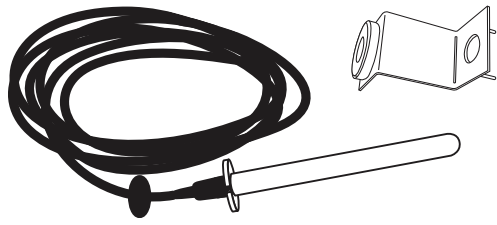
CAUTION!

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

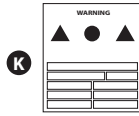
Note: Use of replacement UV lamps other than TUVL-211P-OS-N9 (for AKTIV8) voids warranty.

Secondary UV Light Installation Instructions (Dual Systems)

The Secondary UV Light (included with dual air treatment systems) is typically installed at the coil for enhanced germicidal effectiveness, reduced system maintenance, and improved indoor air quality.



J Remote UV Lamp - White Base
PART: TUVL-211P
Replace after 2 years



Panel Sticker



Sight Glass



Magnet Mount

IMPORTANT!

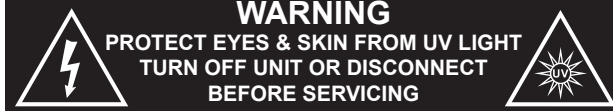
- Dual System lamps are wired in series - connect both for lamps to light
- Only qualified technicians should install this product
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

Installation Notes

Before installing the Secondary 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.

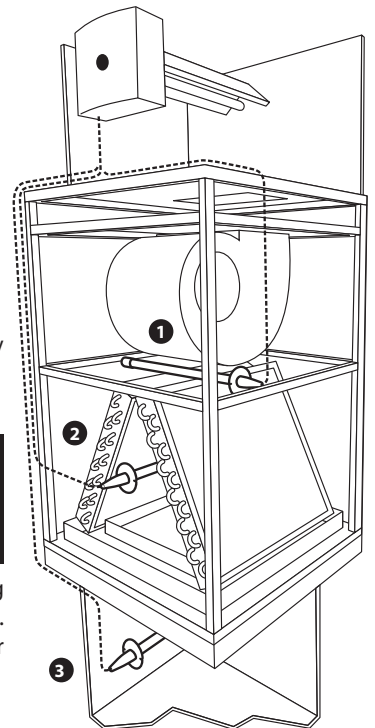
Some typical mounting locations:

- 1 Across top of coils
- 2 Coil "A" plate
- 3 Return-side duct



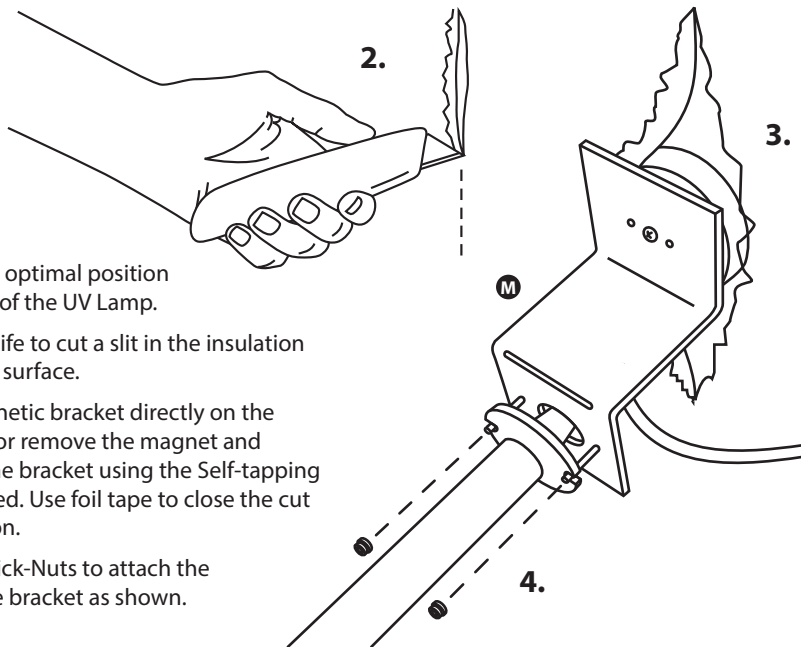
Important: Some materials inside the air system (including filter media, flex duct, wiring etc) may not be UV light resistant. Use the optional UV shield (part #TUV-SHIELD-LPC) or cover the materials with reflective tape.

J Remote UV Light



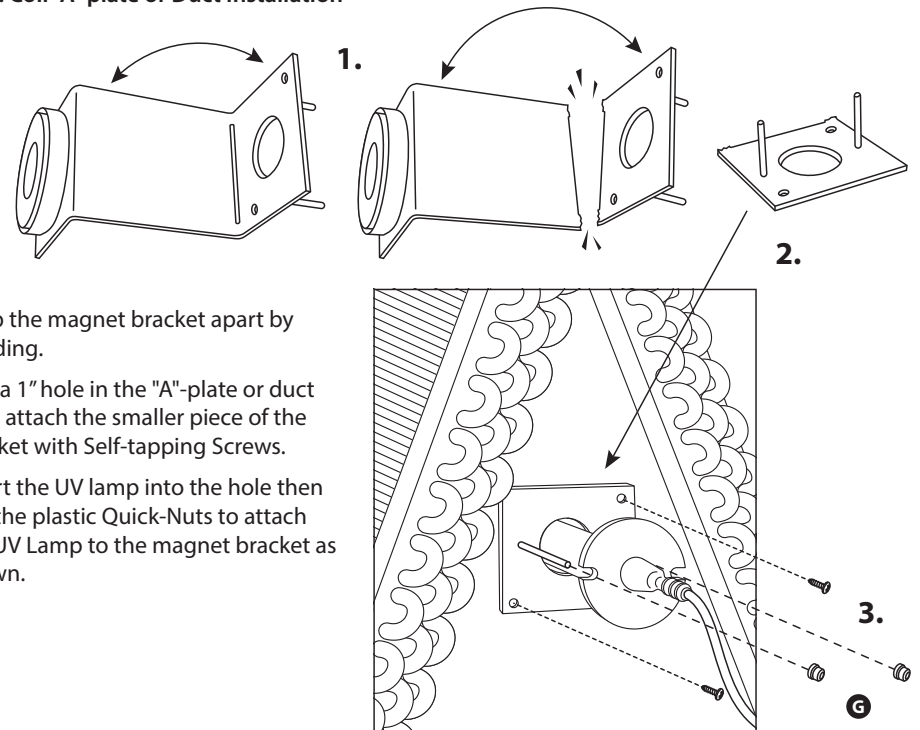
Mounting Options

STEP 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 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 bracket as shown.

STEP 2: Coil "A" plate or Duct Installation



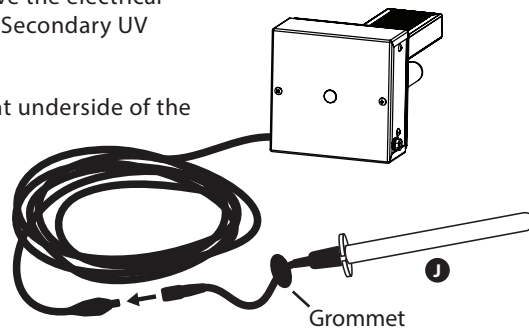
1. Snap the magnet bracket apart by bending.
2. Drill a 1" hole in the "A"-plate or duct then attach the smaller piece of the bracket with Self-tapping Screws.
3. Insert the UV lamp into the hole then use the plastic Quick-Nuts to attach the UV Lamp to the magnet bracket as shown.

STEP 3: Remote UV Light Configuration

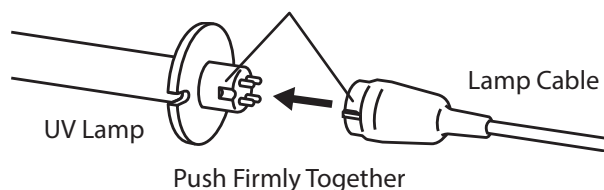
IMPORTANT! Only Dual System models have the electrical capacity and attached cable to power the Secondary UV Light.

Find the secondary lamp cable on the right underside of the Dual System Main Unit.

Drill a 1" hole in the air system housing then pass the lamp cable through the hole. The hole is then sealed with the rubber grommet to minimize air leakage.

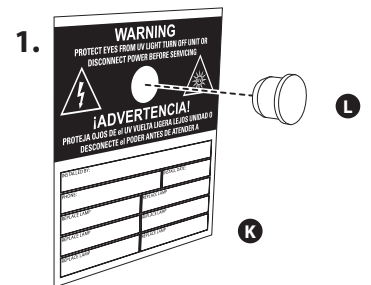


Align Pins with Alignment Key



STEP 4: Sight Glass Installation

1. Apply the warning/lamp replacement sticker **K** on or near the HVAC system.
2. Drill a 1/2" hole through the circle on the sticker. Press the sight glass **L** into hole.
3. Turn on the power and use the sight glass to confirm that the UV Lamp is operating.



STEP 5: Replace the secondary UV lamp every 2 years.

Note: UV lamps may continue to emit visible light after two years, however, germicidal decreases over time. After two years of operation the UV lamp should be replaced. Never expose eyes or skin to direct UV light.



Remote UV Lamp - White Base
PART: TUVL-211P
Replace after 2 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 TUVL-211P (for secondary UV light) voids warranty.