

# **Carbon Catalyst RT Installation**

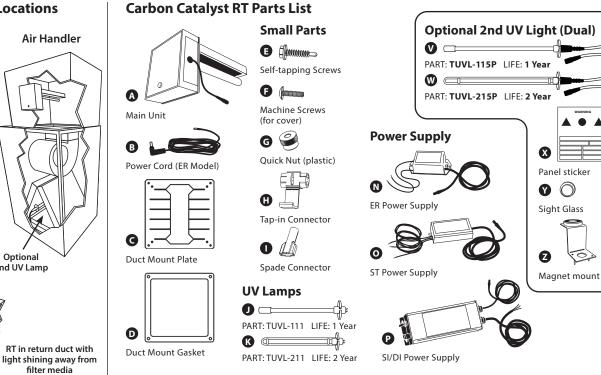


Carbon Catalyst RT is usually installed on the supply side duct just above the air system (upstream of a humidifier). It can also be installed on the return side if necessary.

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-uvresistant materials (filters, humidifiers, flex duct, etc.). Ideally the UV light shines on the coil.

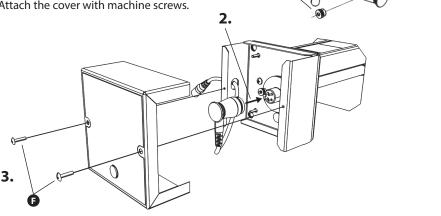
For dual systems select a remote UV light location that shines on the greatest surface area or the area with the most microbial growth. Refer to the Optional Remote UV Light section for installation instructions.

# **Typical Installation Locations Air Handler** Furnace lumidifie Optional 2nd UV lamp Optional 2nd UV Lamp RT in return duct with Filter media

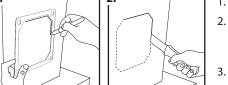


### STEP 2: Carbon Catalyst RT Power Unit & UV Lamp Mounting

- 1. Fit the Carbon Catalyst RT 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 to secure it.
- 2. Insert UV 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.



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- 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 **G** to
- sheet metal ducts using self-tapping screws **E**.<sup>\*</sup> 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
- 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.

mounting plate and gasket to the duct.

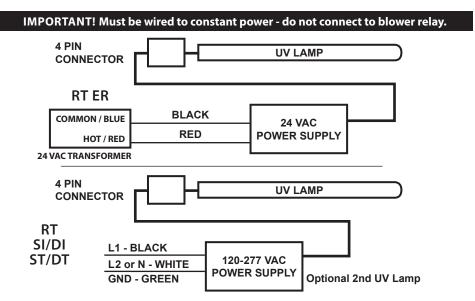


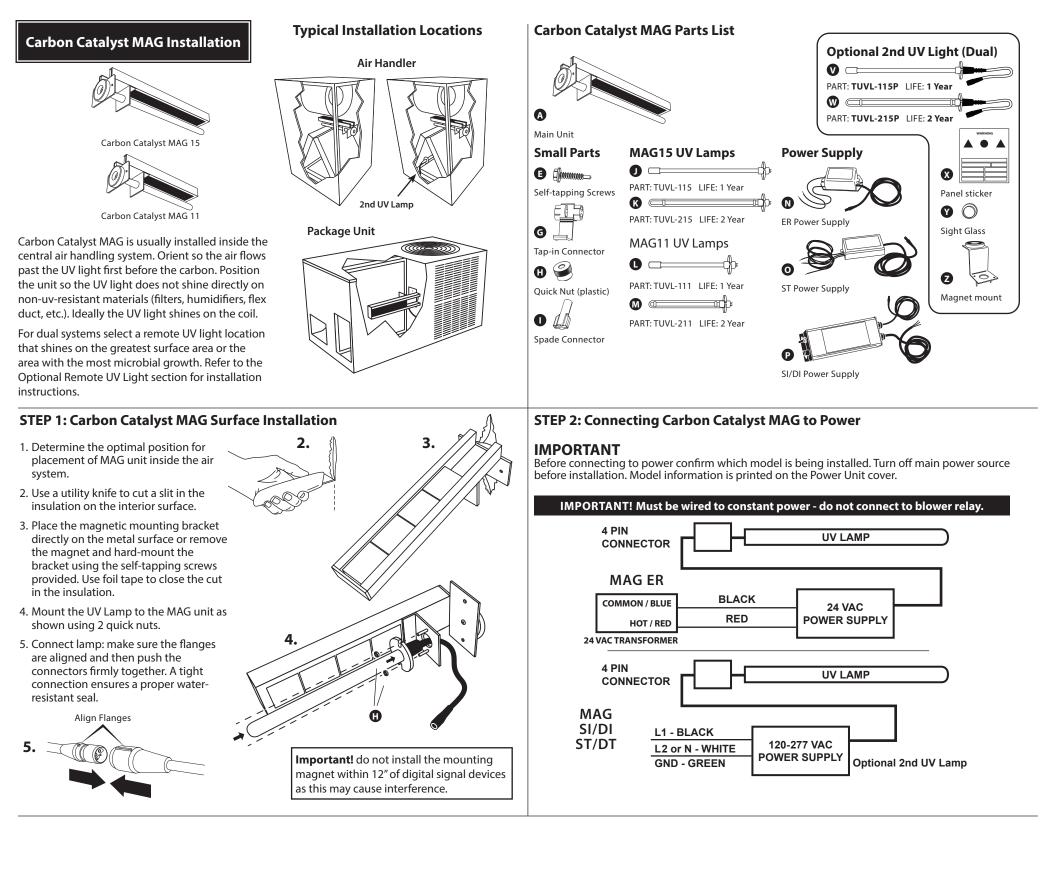
# **STEP 3: Connecting Carbon Catalyst RT to Power**

# **IMPORTANT**

3.

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





# **Remote UV Light Installation (Dual Systems)**



Carbon Catalyst Dual systems (Standard, RT, Mag) include a second, remote mounted UV light for additional HVAC disinfection, usually at the coil. Dual systems include a second power supply for the remote UV lamp. To add a second UV light to an Carbon Catalyst system that is not a dual, purchase an additional UV light with its own power supply.

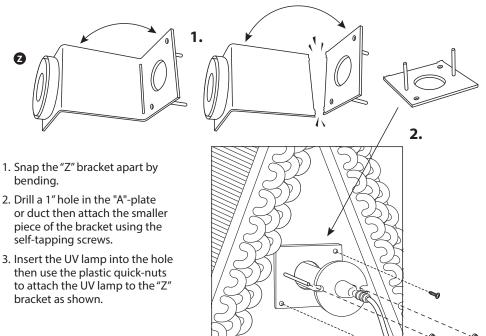
# WARNING

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

#### **IMPORTANT!**

- 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

### STEP 2: Coil "A" plate or Duct Installation



3.

PART: TUVL-115 LIFE: 1 Year

PART: TUVL-215 LIFE: 2 Year

PART: TUVL-111 LIFE: 1 Year

PART: TUVL-211 LIFE: 2 Year

PART: TUVL-115P LIFE: 1 Year

PART: TUVL-215P LIFE: 2 Year

PART: TUVL-111P LIFE:

PART: TUVL-211P LIFE: 2 Year

FITS: MAG11

FITS: MAG11

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FITS: MAG15, Remote UV Light (dual models)

FITS: MAG15, Remote UV Light (dual models)

FITS: Standard

FITS: Standard

FITS: RT

FITS: RT  $\frown$ 

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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.

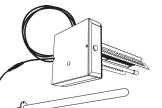
Note: UV lamps will continue to emit visible light but they lose germicidal effectiveness over time. One-year and two-year lamps are interchangeable, you can upgrade to a two-year lamp with your existing power supply.

# **CAUTION!**

UV lamps contain small amounts of mercury - dispose of lamps in accordance with local environmental regulations.

For more information visit www.lamprecycle.org

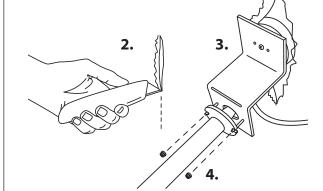
Note: Use of replacement UV lamps other than those listed voids warranty.

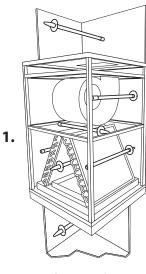


Carbon Catalyst Standard has an internal power supply for the second lamp. RT & MAG have external power supplies with a cable for the second lamp.

# **STEP 1: Remote UV 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 guick-nuts to attach the UV lamp to the "Z" bracket as shown.





Typical remote UV 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 4 : Remote UV Configuration**

- 1. Find a suitable location on the outside of the duct-work near the UV Lamp installation and apply the warning/lamp replacement sticker
- 2. Drill a 1/2" hole through the orange circle on the sticker. Press the UV safety viewport into hole.
- 3. Connect lamp: make sure the flanges are aligned and then push the connectors firmly together. A tight connection ensures a proper water-resistant seal.
- 4. Turn on the power and use the sight glass to confirm that the UV Lamp is operating.

