**Carbon Catalyst Whole-House Air Purifiers**

Carbon Catalyst whole-house air purifiers reduce odor-causing and potentially toxic VOCs, as well as biological contaminants including mold, bacteria, viruses, and allergens in indoor air. This award-winning technology uses a unique combination of UV-C light and activated carbon cells to clean the air.

**INSTALLATION INSTRUCTIONS**

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

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty. © Manufactured by Triatomic Environmental

<table>
<thead>
<tr>
<th>Carbon Catalyst Standard Parts List</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Small Parts</strong></td>
</tr>
<tr>
<td>- Self-tapping Screws</td>
</tr>
<tr>
<td>- Machine Screws (for cover)</td>
</tr>
<tr>
<td>- Quick Nut (plastic)</td>
</tr>
<tr>
<td>- Tap-in Connector</td>
</tr>
<tr>
<td>- Spade Connector</td>
</tr>
<tr>
<td><strong>UV Lamps</strong></td>
</tr>
<tr>
<td>- PART: TUVL-115 LIFE: 1 Year</td>
</tr>
<tr>
<td>- PART: TUVL-215 LIFE: 2 Year</td>
</tr>
<tr>
<td><strong>Optional 2nd UV Lamp</strong></td>
</tr>
<tr>
<td>- PART: TUVL-115P LIFE: 1 Year</td>
</tr>
<tr>
<td>- PART: TUVL-215P LIFE: 2 Year</td>
</tr>
</tbody>
</table>

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

**STEP 1: Carbon Catalyst Standard Duct Mounting**

1. Use gasket \( \heartsuit \) to trace cut-line onto duct.
2. Cut hole in sheet metal or duct board.
3. For sheet metal duct secure mounting plate \( \heartsuit \) to sheet metal ducts using self-tapping screws \( \heartsuit \)*.
4. Remove paper backing from one side of gasket \( \heartsuit \) 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: Carbon Catalyst Standard Power Unit & UV Lamp Mounting**

1. Fit the Carbon Catalyst Standard 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 \( \heartsuit \) 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 \( \heartsuit \).

**STEP 3: Carbon Catalyst Standard 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.**

Connect to load side of 24 VAC transformer

Connect to load side of HVAC
**Carbon Catalyst RT Installation**

**Typical Installation Locations**

- Furnace
- Air Handler
- Package Unit
- In-Duct Air Purifier
- Air Handler
- Optional 2nd UV Lamp
- Optional Remote UV Light
- Humidifier
- Magnet mount
- Optional 2nd UV Lamp
- Air Handler
- Optional 2nd UV Lamp
- Magnet mount

**Carbon Catalyst RT Parts List**

- Small Parts
  - Spade Connector
  - Tap-in Connector
  - Magnetic Mount
  - Blind Mount Plate
  - Power Supply
- Power Supply
- UV Lamps
- Optional 2nd UV Lamp
- Duct Mount Gasket
- Duct Mount Plate
- Power Cord (ER Model)

**Carbon Catalyst RT Installation**

**STEP 1: Carbon Catalyst RT Duct Mounting**

1. Use gasket to brace cut line onto duct.
2. Cut hole in sheet metal or duct board.
3. For sheet metal duct secure mounting plate to sheet metal duct using self-tapping screws.
4. Remove paper backing from one side of gasket and the gasket to the back of the mounting plate.
5. Remove paper backing from back of gasket then fit 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: Carbon Catalyst RT Power Unit & UV Lamp Mounting**

1. Fit the Carbon Catalyst RT Main Unit through hole in duct. Install UV lamp directly to metal duct using (2) Quick Nuts and attach lamp connector (be sure to align the four connector pins).
2. Mount Unit using (2) Quick Nuts and attach lamp connector (be sure to align the four connector pins).
3. Place the magnetic mounting bracket over the threaded posts and use (4) Quick Nuts to secure it.
4. Insert UV Lamp.
5. Mount UV Lamp to the MAG unit as shown using 2 quick nuts.

**Carbon Catalyst MAG Installation**

**Typical Installation Locations**

- Air Handler
- Optional Remote UV Light
- Humidifier
- In-Duct Air Purifier
- Air Handler
- Optional Remote UV Light
- Magnet mount
- Optional 2nd UV Lamp
- Air Handler
- Optional Remote UV Light
- Magnet mount

**Carbon Catalyst MAG Parts List**

- Small Parts
  - Spade Connector
  - Tap-in Connector
  - Magnet mount
  - Sight Glass
  - Panel sticker
- Power Supply
- UV Lamps
- Optional 2nd UV Light (Dual)
- Package Unit

**Carbon Catalyst MAG Installation**

**STEP 1: Carbon Catalyst MAG Surface Installation**

1. Determine the optimal position for placement of MAG unit inside the air system.
2. Use a utility knife to cut a slit in the insulation on the interior surface.
3. Place the magnets mounting bracket directly on the metal surface or remove the magnet and hard mount the bracket using the self-tapping screw provided. Use foil tape to close the cut in the insulation.
4. Mount the UV Lamp to the MAG unit as shown using 2 quick nuts.
5. Connect lamp: make sure the flanges are aligned and then push the connection firmly together. A tight connection ensures a proper water-resistant seal.

**STEP 2: Connecting Carbon Catalyst MAG to Power**

**IMPORTANT**

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

**Carbon Catalyst MAG Installation**

**Optional Remote UV Light**

- Typical Installation Locations
- Carbon Catalyst MAG Parts List
- Power Supply
- UV Lamps
- Optional 2nd UV Lamp

**WARNING**

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 CC system that is not a dual purchase an additional UV light with its own power supply.

### STEP 2: Coil “A” plate or Duct Installation

1. Snap the “Z” bracket apart by bending.
2. Drill a ½” 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.

### 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!**

- 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 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 ½” 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.

### 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 transference.

**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 warranty does not cover 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.

**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.finchair.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 our 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 it 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, this 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.