

Clear Blue™ Advanced  
Installation Instructions



**WARNING**

Before installing or performing maintenance or service on the purifier, turn off the main power switch to the unit. Electrical shock can cause injury or death. There may be more than one disconnect switch.

**WARNING**

Never expose eyes or skin to ultraviolet light from any source. The purifier MUST BE DISCONNECTED from any power source before maintenance or service is performed. Personal injury may result.

**WARNING**

Do not touch the lamp glass without gloves; it may reduce performance of the lamp. Clean the lamp after handling.

**WARNING**

The UV Lamp contains a small quantity of mercury. If a lamp breaks, clean and dispose of with care.

**WARNING**

Use only specified replacement lamps with your purifier. Use of an incorrect lamp can result in damage to the purifier/lamp.

Follow all safety codes.  
Wear safety glasses and work gloves.

**PLEASE SAVE FOR YOUR RECORDS**

Serial #: \_\_\_\_\_

Date Installed: \_\_\_\_\_

Installed By: \_\_\_\_\_

Installers Contact info.: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Clear Blue™ Advanced

## Installation Instructions

1. Disconnect power to the HVAC unit.
2. Remove the ballast, brackets and UV Lamp from the packaging.
3. Locate the ballast so that there is sufficient cable to attach to the UV Lamp when it is installed.
4. The two piece lamp bracket is used to hold the Lamp. Depending on the type of coil and the location of the UV light on the coil, determine if one or both pieces of the bracket should be used. The UV Lamp will be installed either with the lamp on top of the coil or with the lamp inside the coil.
5. The Main Bracket can be mounted to the side of the coil allowing the UV Lamp to be inserted either over or in-between the coil. Drill a 1" diameter hole in the sheet metal to allow the UV Lamp to pass and mount the Main Bracket to the side of the coil using the two included sheet metal screws. Once installed use the black plastic Lamp Retaining Ring to lock the Lamp in place and tighten the three screws.

### Use of the Magnetic Multi-Bracket

*The Magnetic Multi-Bracket allows for various lamp installations. Inspect the ideal location for the UL Lamp System and use the Main Bracket and Magnetic Multi-Bracket together, if desired.*

6. Connect the plug into the UV Lamp pins. The plug is designed so that it can only be installed one way. You may have to rotate the socket 90° to line up the pins with the holes.
7. Connect the black and white wires to the 24V terminals on the HVAC equipment.
8. Reconnect power to the HVAC unit.

### Ballast Operation

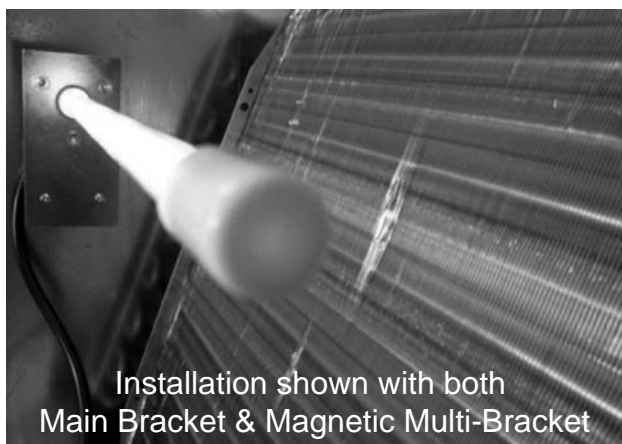
Once the power has been reconnected the Ballast LED will illuminate as well as the UV Lamp. In the event that the LED status light is OFF there is either no power going to the ballast or the ballast has failed. If the LED flashes once, the system is under voltage (<18V). If the LED flashes twice, the system is over voltage (>32V). When the LED flashes three times, the lamp has expired. If the LED flashes four times the UV lamp is bad. Once the UV Lamp has been replaced hold the RESET button for three seconds to reset the counter.

The system will provide feedback if there are multiple issues. For example, if the LED flashes twice then pauses and proceeds to flash three times, the system is over voltage and has an expired lamp.

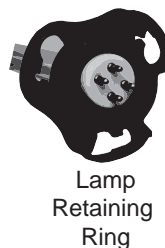
### Maintenance

Disconnect all the power before performing any maintenance or service. The UV Lamp should be cleaned every two to three months. To clean, disconnect the white socket from the lamp then loosen the three screws on the retainer ring. Turn the retainer ring left and pull out the UV Lamp while leaving it in the retainer ring. Wipe the UV Lamp with a soft tissue and alcohol based solution. Reverse the above procedure to reinstall the UV Lamp. Lamps need periodic replacement to maintain design specifications. Replace lamps after one year of operation. Follow instructions for Ballast Operation (above) on how to reset the timer feature. Contact a local dealer for replacement lamps.

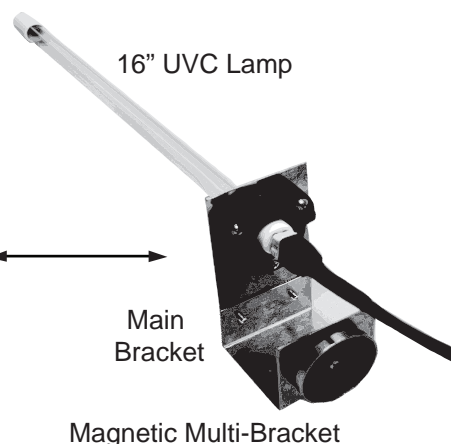
DIAGNOSTIC INDICATOR FLASH CODES:	
# OF FLASHES	DESCRIPTION
1	Low Voltage (<18V)
2	High Voltage (>32V)
3	Lamp Expired
4	Bad Lamp
ON	Normal Operation
OFF	No Power or Replace Ballast



Ballast



Lamp Retaining Ring



### Warranty

This product has a one year warranty on fixture, ballast, and UV Lamp subject to the conditions stated on the website.

[www.universaluvsolutions.com](http://www.universaluvsolutions.com)  
[info@universaluvsolutions.com](mailto:info@universaluvsolutions.com)