

Ultravation®

Professional Indoor Air Quality Products

24 VAC Ultramax EZ Series Air Disinfection Systems Owners Manual

Installation Steps for External Mounting of Power Supply:

1. Determine a suitable location to install unit housing. Mounting location should be of sufficient strength as to support the unit; otherwise, reinforcement of the ductwork may be necessary. Fasten the unit in place with four self-tapping screws (supplied).
2. Select location for UV lamp module. Drill a 1" hole. Mount mounting plate over drilled hole with screws provided. Insert UV lamp module into hole. Attach to HVAC system with 2 self-tapping screws (supplied).
3. Plug lamp connector onto installed UV lamp module. Be sure the connector is pushed fully onto the lamp.
4. Connect power wires to the off 24 VAC HVAC system. **This should be done in Accordance with all State and Local Electrical and Building Codes.**

***Note: The T3 UV lamp assembly can be removed independently, simply by removing the 2 screws in the gray lamp holder.**

- *3. Plug the rubber lamp connector fully onto the installed UV lamp assembly. Be sure the 4 pinholes are orientated properly to the 4 matching pins on the lamp.

Note: The pins are in a rectangular pattern and can only be mated in 2 positions

***Note: UV status viewport lens supplied to verify lamp operation (for either installation). A 3/8" hole will need to be drilled within a 3" radius around the lamp, but above the "V" in the light shield.**

Installation Steps for Internal Mounting of Power Supply:

1. Mount power supply inside of the air handler out of the air stream as much as possible. Place the power supply as close to the control panel as possible for ease of connecting to 24 VAC.
2. To utilize the internal mounting bracket- first install the bracket inside the air handler in a location that will position the UV lamp such that it bathes the entire surface to be treated. Next plug the lamp connector onto the lamp.
3. Connect power wires to the off 24 VAC HVAC system. **This should be done in Accordance with all State and Local Electrical and Building Codes.**

Maintenance:

Note: It is recommended that this unit be installed and maintained by a trained technician. Never perform maintenance on the UV unit without disconnecting power.

Typical maintenance consists of replacement of the ultraviolet lamps.

UV lamps undergo a photochemical process during operation. This slowly reduces the amount of UV light generated to disinfect against airborne pathogens. For optimum air stream disinfection against airborne pathogens it is recommended the UV lamps be changed on an annual basis.

When installing new lamps, ensure that the lamp glass is free from any fingerprints or debris, as this may alter the path of the UV energy. Use rubbing alcohol and a dry cloth to remove any surface contaminants.

Warranty:

Ultravation warrants this product against any defects in UVC lamp and the 24 VAC power supply for a period of 1 year after date of consumer purchase, with the exception of the Ultraviolet Lamp, which is warranted for a period of 1 year after date of consumer purchase.

This warranty does not include damage to the unit from accident, misuse or improper installation. If this product should become defective during the warranty period, Ultravation will repair or elect to replace the product free of charge.

Ultravation will return repaired or replaced warranted products pre-paid, provided that the product was delivered pre-paid. Ultravation shall have no responsibilities for charges incurred by the customer for installation or removal of warranted items. Liability is limited only to the replacement or repair of this product.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

All returns must be accompanied by a return authorization number, which may be obtained by contacting Ultravation, Inc.

Ultravation, Inc. ~ P.O. Box 234 ~ 218 Jones Drive ~ Brandon, Vermont 05733
Phone: 802-247-0034 ~ Fax: 802-247-0033 ~ www.ultravation.com

Replacement Parts:

16 W UVC Lamp-	LP-PP-0013
12" T3 UVC Lamp-	AS-IH-1001
Multi Purpose Light Shield-	94-010
Optional PCO plate-	94-004

Trouble Shooting:

The Ultravation air disinfection equipment is designed to provide many years of trouble free operation. In the unlikely event of a problem, please contact your local dealer or Ultravation directly. Before calling for service, you should have your Model No., Serial No., and Manufacturing Date.

If you are Troubleshooting the Unit

Check the Following:

- Verify the unit has power (24 VAC)
- Lamps are securely plugged in into their sockets, no loose wires, and in the right orientation.
- Verify if in fact the UV lamps are on or off. **Do Not Look at the UV Light Without Proper Eye Protection.**
- If possible try new lamps in the Unit to see if they light.

Safety Precautions:

It is recommended that this unit be installed and maintained by a trained technician:

WARNING: UV Hazard. Always protect eyes from ultraviolet light. NEVER look at UV lamps in operation. Unplug or disconnect power before re-lamping or servicing.

WARNING: Severe eye damage or temporary blinding may occur.

WARNING: DO NOT operate outside of Air Handler. Mount lamp base to duct first.

WARNING: No openings in duct are allowed which would give direct line-of-sight to the UV light.

In the event of accidental breakage or replacement of the ultraviolet lamp, please ensure that the lamp is disposed of in accordance with local and state environmental laws regarding fluorescent lamps containing mercury.

Notice:

All wiring inside of the duct or air handling system in direct line of site of the UV lamp must be shielded with aluminum foil tape or equivalent non-combustible material. When installing this unit, select a mounting location that prevents ultraviolet light exposure to plastic flexible duct liner or other plastic components with unknown resistance to ultraviolet light. Ultraviolet light may cause color shift or structural degradation of plastic HVAC components