

**Maintenance:**

Typical maintenance of the UltraMax EZ UV system is recommended replacement of the UVC Lamp every year.

UV lamps undergo a photochemical process during operation. This slowly reduces the amount of UV light generated to disinfect against airborne pathogens.

**Important:**

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.

**Replacement Lamp Log Sheet:**

Included with the product is a replacement lamp log sheet. It is provided as a label so it can be attached near the installation to ensure lamp replacements are being tracked.

**Replacement Lamp Part Numbers:**

- 12" UVC germicidal Lamp (Provides 1 year increase HVAC efficiency).....AS-IH-1010
- 12" UVC T3 germicidal Lamp (Provides 2 years increase HVAC efficiency)...AS-IH-1001
- 17" UVC germicidal Lamp (Provides 1 year increase HVAC efficiency).....AS-IH-1012
- 17" UVC T3 germicidal Lamp (Provides 2 years increase HVAC efficiency)...AS-IH-1003

**Warranty:**

Ultravation warrants this product against any defects in the UVC lamp power supply for a period of ten years after date of consumer purchase, with the exception of the ultraviolet lamp, which is warranted for a period of one year after date of consumer purchase.

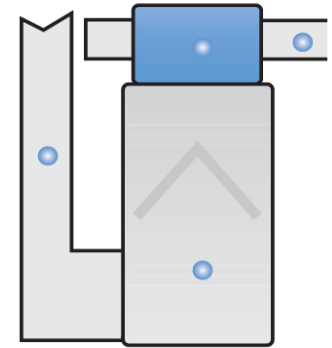
This warranty does not include damage to the unit from accident, misuse or improper installation. If this product should become defective during the warranty period, Ultravation will repair or elect to replace the product free of charge. Ultravation will return repaired or replaced warranted products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

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**Installation and Owners Manual**



**Typical installation locations**



See Back for Details



Ultramax EZ Model	Description	Operating Voltage	Lamp Length
UMX2412-EZ	Ultramax EZ UV with lamp	24V	12"
UMX2419-EZ	Ultramax EZ UV with lamp	24V	17"
UMX2412-EZ-M	Ultramax EZ UV with lamp with magnetic mount	24V	12"
UMX2419-EZ-M	Ultramax EZ UV with lamp with magnetic mount	24V	17"

## Package Contents:

- One 24v power supply with power leads
- One 12" or 17" UVC Lamp
- Two lamp mounting screws
- One light shield
- One lamp lead
- Six self tapping screws
- One lamp mounting gasket
- Two wire nuts
- Viewport
- One lamp mounting plate
- UVC warning label
- Replacement lamp log sheet
- Viewport label
- Warranty card
- 6 ft power cord (some models)

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## 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 blindness may occur.

**WARNING:** DO NOT operate outside of air handler. Mount product in preferred location first.

**WARNING:** No openings should be 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 air handler 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 synthetic or other plastic components with unknown resistance to ultraviolet light. Ultraviolet light may cause color shift or structural degradation of plastic internal components.

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### Second Lamp Option:

Some HVAC equipment can benefit from additional UV lamps. The Ultravation EZUV power supply will operate a second UV lamp to disinfect additional areas inside the HVAC system such as the blower fan. The EZ-Light 6P is designed specifically for second lamp applications or add odor control capabilities.

**See literature included for details of all available upgrades.**



## Installation :

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 duct work may be necessary. Fasten the unit in place with two self-tapping screws (supplied). if mounting internally mount in the electronics section of the AHU , do not mount the power supply inside the air stream duct.

2. Select location for UV lamp module. for external installation Drill a 1" hole. Mount mounting plate over drilled hole with four self-tapping screws (supplied). Insert UV lamp module into in hole. Attach to HVAC system with two self-tapping screws (supplied). 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. Plug the lamp connector onto the lamp, (and snap into the bracket internal mounting).

**The rectangle pin pattern allows connection in two positions.**

3. Connect power wires to the secondary (24VAC) of a UL Listed Class 2 dedicated transformer (minimum 40VA) with the primary of the transformer connected to the appropriate voltage (see transformer instructions). **This should be done in accordance with all state and local electrical and building codes.**

Ultravation supplies two types of power supplies. Both power supplies have identical features and output strength. the difference is in the incoming power connection. One style is 2 input wires that will connect directly to the 24 VAC transformer. The other type is a 6 foot cable that connects to the power supply and plugs into the power supply.

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## Installation steps for UV viewport:

1. Find a location on the air handler or duct work that will be visible and be in direct line of sight of UVC light.
2. Affix UV viewport label to air handler or duct work.
3. Drill a 3/8" hole through the label and air handler or duct work in marked location on label.
4. Press in UV viewport until it snaps into place.

**Disclaimer:** The health aspects associated with the use of this product and its ability to aid in disinfection of environmental air have not been investigated by UL.