

ULTRAMAX UME FIXED LAMP AIR DISINFECTION SYSTEMS w/ ODOR REDUCING TECHNOLOGY (PCO) OWNERS GUIDE



Models: UME-1000/ UME-2000 / UME-1036/ UME-2036 - 120VAC Power Input with Fixed Mount Lamps

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Shipping and Packaging List:

- UME Electrical Housing
- Ultra-Ion Re-fresh PCO module w/ gasket and mounting Hardware
- 6- ¾ inch 5/16 self tapping sheet metal screws
- Warning Label
- Residential Warranty Card

UME- 1000, 1036, 2000, 2036

- 1000 Series- One 9" or 16" Lamp
- 2000 Series- Two 9" or 16" Lamps
- UME hole placement template

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 relamping or servicing.

WARNING: Severe eye damage or temporary blinding may occur.

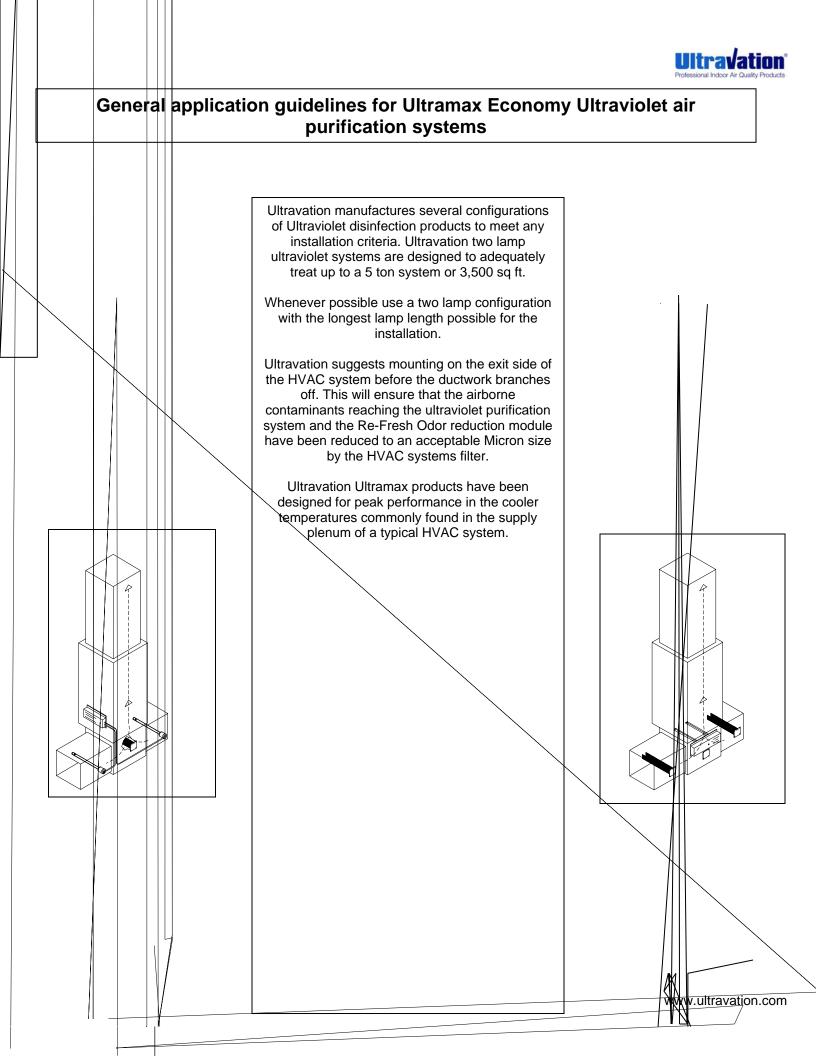
WARNING: DO NOT operate outside of Air Handler. Mount lamp base to duct first.

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.

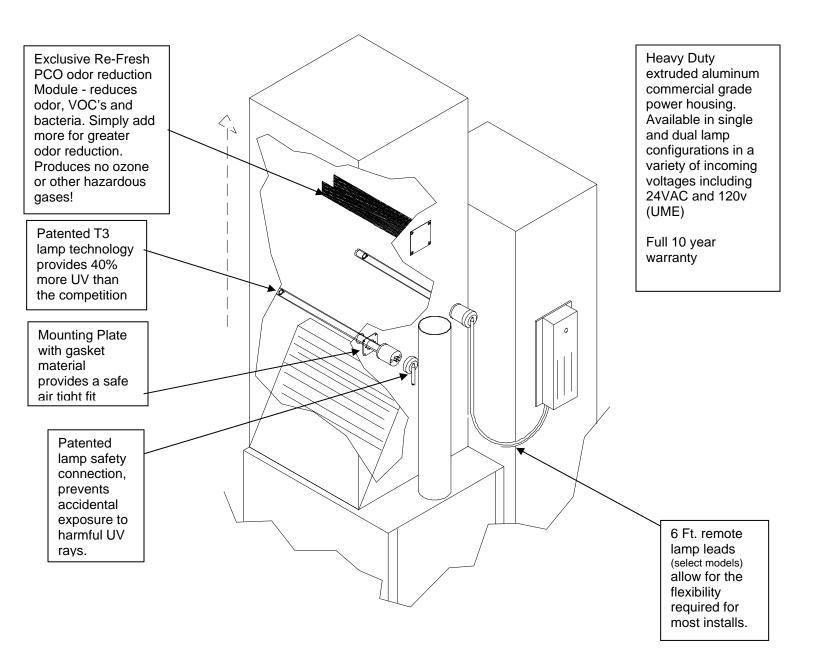
Notice:

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





Recommended Installation





Installation steps for fixed lamp mounting, fixed lamp replacement, and external mounting of power supply:

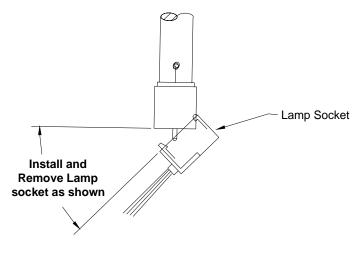
1. Determine a suitable location to install unit. Ductwork should be of sufficient strength as to support the unit; otherwise reinforcement of the ductwork may be necessary (See page 3 for suitable locations).

2. Find "CUT-OUT-TEMPLATE" supplied with the unit. Place template over ductwork and mark hole location(s). Using a 2" hole saw, cut 2 hole(s) as shown.

3. Lift into place against ductwork. Fasten unit in place with four or six self- tapping screws (supplied).

4. Install lamps by removing cover. Lamp(s) access interior of ductwork via hole(s) cut. Clip socket onto lamp base. (As shown on below) Slide lamp base onto bracket.

5. Plug in unit.



Installation steps for Exclusive Re-Fresh PCO odor reduction Module:

1. Find a location adjacent to the UV lamps to mount the PCO module. To activate the PCO module it requires UV light shinning on its surface. PCO module can be mounted within inches of the UV light, or if necessary the module can be within 2 ft. of direct UV light and still be activated.

2. To mount the PCO module you will need to drill one 2 1/2" diameter hole. The base plate of the module will need to be screwed to the duct or air handler with the 4 screws supplied.

3. The PCO module measures 16" inches long by 2 ½" diameter. The surface area of the module relates directly to the amount of VOC's it can eliminate. If necessary the Module can be trimmed to a shorter length to accommodate installation in the air handler.

It is beneficial to install additional PCO modules in the area of the UV lights, thereby increasing the airborne bacteria disinfection rate and the removal of VOC's. Also the PCO modules may be installed completely internally.





Maintenance:

Maintenance typically consists of an annual 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.

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.

Troubleshooting:

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; Manufacturing Date;

- Verify the unit has power (120 volt)
- Power switch is in the ON position
- Lamps are securely plugged into their sockets
- The electronic circuit of a 2-lamp system only operates when both lamps are operating.
- Verify fuses are not blown. Remove replaceable 5 amp MDL fuse from fuse holder and visually inspect or perform a continuity test of the fuse.
- Verify what signal if any the UV Lamp Monitor LED is emitting. (See below).
- Verify if in fact the UV lamps are on or off. **Do not** look at the UV light without proper eye protection.

Lamp Replacement:

*See Lamp Installation for Replacement Procedure.

NOTE: When replacing lamps after 1 year or 2 years of operation disconnect power to the unit first. After the lamps are in place, complete steps 1-5 to set the service indicator to 0.

For optimum 24/7 air stream disinfection it is recommend the UV-C lamp is replaced on an annual basis.



Power Consumption:

	Number of	Power
Model	Lamps	Consumption
UME -1000	1-9 inch twin	18 Watts (.15 A @ 120VAC)
UME -2000	2-9 inch twin	36 Watts (.3 A @ 120VAC)
UME -1036	1-16 inch twin	36 Watts (.3 A @ 120VAC)
UME -2036	2-16 inch twin	72 Watts (.6 A @ 120VAC)

Replacement Parts:

Model	Description	Replacement Part Number
UME	9" Twin Tube Lamp	LPPP0001
UME	16" Twin Tube Lamp	LPPP0002
UME	5 Amp Fuse	EL-PP-0044
UME	Ultra-ion Re-fresh PCO Module	94-004

Warranty:

Ultravation warrants this product against any defects in material or workmanship for a period of 10 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 elect to repair or 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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