

Ultravation®

Better Air | Better Water | Better Living™

UVMATRIX™ 4X SERIES – OUTDOOR RATED SYSTEMS OWNERS GUIDE

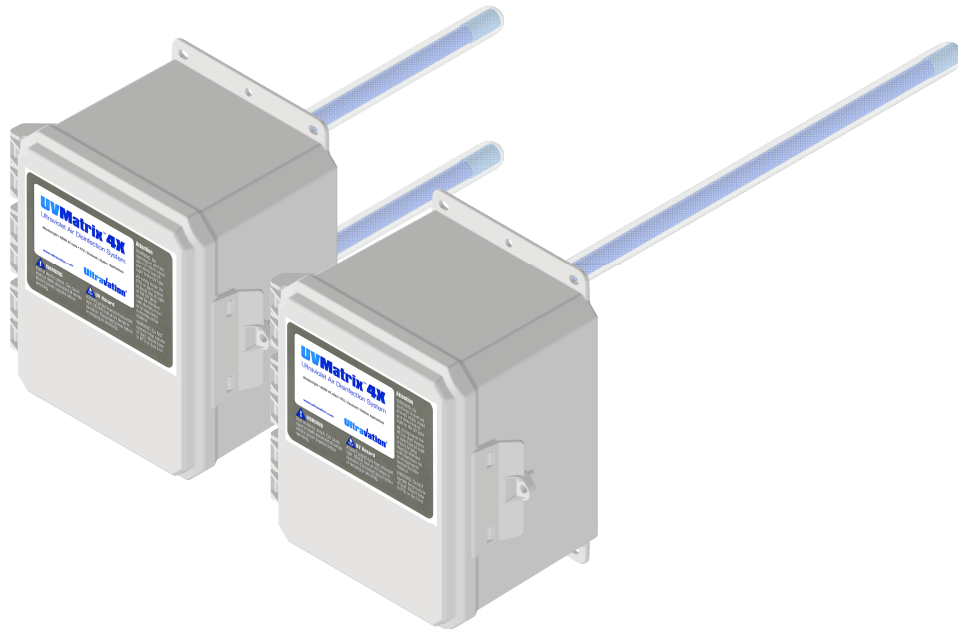
INCLUDES THE FOLLOWING:

UVMatrix™ 4X-112, UVMatrix™ 4X-122, UVMatrix™ 4X-133, UVMatrix™ 4X-212, UVMatrix™ 4X-222 and UVMatrix™ 4X-233

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Shipping and Packaging List:

- UVMatrix 4X Electrical Housing
- 4- 3/4 inch 5/16 self tapping sheet metal screws
- UVC Warning Label
- Warranty Card
- One or two T3 Enhanced UVC lamp(s) – Depending on Model
- 4 – 8-32x1" lamp mounting screws
- Three Wire Nuts (for hardwiring the system)

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 housing to duct or air handler 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

Warranty:

Ultravation warrants this product against any defects in material or workmanship for a period of 3 years after date of installation (minimum expected lifetime of product under normal operating conditions), with the exception of the Ultraviolet Lamp, which is warranted for a period of one year after date of installation.

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.

Ultravation, Inc. ~ 67 Tubbs Av, Brandon, Vermont 05733

Phone: 802-287-9735 ~ Fax: 802-287-9203 ~

www.ultravation.com

Installation steps:

1. In most cases the UVMatrix™ 4X equipment will be located on rooftop packaged units or other outdoor applications. Due to access panels and other instrumentation typically on the sides of rooftop units, the UVC equipment will typically be installed across the top of the rooftop unit. The lamp should be located 10" – 14" away from the coil.
2. Once the location is determined to install the UVC equipment the installing contractor should place the UVC equipment in its correct location, and screw in two mounting screws to ensure the UVC equipment doesn't shift. Next the front cover should be opened, and with a writing apparatus, an outline of the UVC lamp hole should be drawn. Then the equipment should be removed, and using a hole saw (this can be done with anything from a 1 ¼" to a 2" hole saw) , a hole should be cut out accordingly. The UVC equipment is now ready to be placed back in its original position and screwed down with all mounting holes.
3. Have a qualified electrician supply 120V or 277V inside enclosure via provided ½" conduit knockouts and terminate via supplied wire nuts. The UVMatrix™ 4X Series systems are required to be wired from a disconnect switch so the power can be turned off for maintenance. It is recommended that the UVMatrix™ 4X Series systems be wired through a safety interlock switch that will disengage power to the equipment in the event that a door or access panel is opened. **If –L option (Lamp monitor) was purchased connect remote monitor equipment to terminals C and NC (dry contacts)**
4. Place supplied warning label on access panel to reduce the risk of UVC exposure. If additional labels are required please contact Ultravation at 1-866-468-8247.

Note: the pins are in a rectangular patent and can only be mated in 2 positions.

T3 Enhanced UVC Lamp Installation:

1. Insert UVC Lamp assembly through the hole in the bottom of the enclosure so that the lamp protrudes into the rooftop system or ductwork.
2. Screw the (each) lamp base to the collar inside the NEMA 4X box with the 2 – 8-32x1" Lamp mounting screws (provided)/
3. Plug 4 pin lamp connector onto lamp, ensuring a good connection.
4. Close cover and screw down sealing screw located on cover.

Maintenance:

UV lamps undergo a photochemical process during operation. This slowly reduces the amount of UV light generated to disinfect against airborne pathogens. UVC Lamps should be changed every 2 years.

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.

Lamp Replacement:

To replace the UV Lamp follow the steps below:

1. Open cover of the electrical enclosure – this will disengage power to the equipment..
2. Unplug the lamp connector from the lamp.
3. Unscrew the 2 – 8-32x1" screws for each UVC lamp and pull straight out.
4. Change lamp and connect lamp.
5. Close cover and screw down to seal.

Replacement Parts:

<u>Models</u>	<u>Replacement T3 UVC Lamp Part Number</u>	<u>Number of lamps required</u>	<u>Replacement Ballast Assembly Part Number</u>
UVMatrix™ 4X-112	AS-IH-1001	1	BL-PP-0113
UVMatrix™ 4X-122	AS-IH-1005	1	BL-PP-0113
UVMatrix™ 4X-133	AS-IH-0611	1	BL-PP-0113
UVMatrix™ 4X-212	AS-IH-1001	2	BL-PP-0113
UVMatrix™ 4X-222	AS-IH-1005	2	BL-PP-0113
UVMatrix™ 4X-233	AS-IH-0611	2	BL-PP-0113

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, please be sure that:

1. Unit has 120V or 277V power.
2. Power disconnect is in the ON position.
3. Lamp is securely plugged into it's socket.

Please contact your local dealer or Ultravation directly for replacement lamps.
Refer servicing to qualified service personnel.