

# PREMIERONE™

## MUV7-50DR MultiVoltage Oxidizing UVC System Installation & Maintenance Instructions

### UNPACKING THE UNIT

The optional oxidizing unit is shipped with the 5" lamp installed. The germicidal lamp is placed in a box with protective packaging. When handling lamps take care to not touch the glass portion of the lamp with bare hands. Oils from the hands can cause "hot spots" which reduce lamp life. Handle by the end caps or use a soft cloth. If you accidentally touch a lamp, clean it using the included alcohol cleaning pad or a soft cloth dampened with rubbing alcohol. The lamp is fragile and proper care must be taken when removing from packaging.

### Depending on your configuration, the following parts may be included:

- Power Supply
- Optional Oxidizing Unit
- Germicidal Twin H Lamp (packed in lamp box)
- Twelve (12) Sheet Metal Screws
- Four (4) caution labels
- Strain relief connector
- Alcohol pad for cleaning lamps
- Installation & maintenance instructions



## IMPORTANT: SAFETY INSTRUCTIONS Important: Instructions de sécurité

*When installing and using this electrical equipment, basic safety precautions should always be followed including the following:*

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Minimum living space for this product is 1,200 square feet.
3. Always be sure the unit is unplugged during installation or service procedures.
4. The ultraviolet light produced by the UV lamp is harmful to your eyes. Do not look directly at the lamp. Should it become necessary to view the lamp, use UV-protected sunglasses.

*Lors de l'installation et de l'utilisation de cet équipement, des précautions devront être suivies.*

- 1- Lire et suivre les étapes attentivement.
- 2- Espace minimum d'une habitation pour ce produit est de 1,200 pi. carrés
- 3- Assurez vous de toujours débrancher avant l'installation ou le service.
- 4- Ne pas regarder la lampe directement avec les yeux. Si nécessaire de le faire, veuillez porter les lunettes de soleil contre les rayons U.V.

## **INSTALLATION:** Living space, 1,200 square feet minimum.

If there is a device that creates ozone in the space such as an ionizing air cleaner, it is recommended the oxidizing unit not be used in this application. Use one of our germicidal only models instead. Homes with multiple air handlers: install this unit on the main level air handler and a germicidal only model on the other air handler(s).

- Do not locate the germicidal lamp within 20” of plastic material that will be directly exposed to the UV light, such as wiring, return-side humidifier or certain types of air filters. Check with the filter manufacturer to see if their material is UV resistant. Over time, UV light may degrade plastic.
- Do not touch the glass portion of the lamps with bare hands because oils from the hands can cause “hot spots” which reduce lamp life. Handle either by the end caps or use a soft cloth. If you accidentally touch a lamp, wipe it off, using the included alcohol cleaning pad or a soft cloth dampened with rubbing alcohol.

## **INSTALLING THE GERMICIDAL UNIT**

### **MOUNTING GERMICIDAL LAMP AND POWER SUPPLY (supply or return side plenum)**

1. Unplug mid-cord connector (s) by pressing the lock release (marked “PRESS” on the connector.) (see photo B)  
Remove two thumb nuts holding moisture resistant lamp socket to mounting plate and remove from the plate.
2. Using the lamp mounting plate as a template, draw the hole pattern on the air duct in a suitable location.
3. Using a 1 1/4 inch Vari Bit, make two holes side by side. Clean off excess metal between the two holes with tin snips. Alternately cut a 2” hole.
4. Peel off the gasket backing from lamp mounting plate and center over hole. Secure using four self-tapping sheet metal screws provided.
5. Find a suitable location to mount the power supply making sure supply cord to ballast will reach 120 or 240 volt power supply. Mount the power supply using four self-tapping sheet metal screws provided.
6. Taking care not to touch the glass, hold the lamp by the end cap and insert fully into the base plate.
7. Insert the moisture resistant lamp socket over the plastic lamp end fitting over the mounting studs, secure using the two thumb nuts. (Photo A)
8. Route cord back to the moisture resistant lamp socket and reconnect mid-cord connector. Be sure to line up arrows on the connector. (see photo B)
9. Adhere included UV Warning Label onto ductwork within six inches of UV lamp.



**Photo B**



## **INSTALLING THE OXIDIZING UNIT (return side plenum only)**

1. Cut a 1.75" - 2" hole for the unit.
2. Attach the unit to the air duct using the four self-tapping sheet metal screws provided.  
(Airflow direction is marked on the unit.)
3. Route oxidizing unit's cord from the power supply, to the oxidizing unit and connect mid-cord connector.  
Be sure to line up arrows on the connector. (see photo B)

## **UPGRADING SINGLE LAMP TO DUAL LAMP OPERATION**

**This unit can be upgraded to include one germicidal lamp and one oxidation unit.  
For dual germicidal lamp operation please use our model MUV7-100DR.**

## **INSTALLING OXIDIZING UNIT UPGRADE (return side plenum only)**

1. Cut a 1.75" - 2" hole for the unit.
2. Attach the unit to the air duct using the four self-tapping sheet metal screws provided.  
(Airflow direction is marked on the unit.)
3. Route oxidizing unit's cord to the power supply.
4. Disconnect blue wires from terminal 1 and 2 and reconnect blue wires to terminal 5 and 6. See illustration #1
5. Remove hole plug from bottom of germicidal unit by pinching plug from inside of unit and pushing from the back.
6. Route the oxidizing unit's cord into the power supply and connect blue wires to terminal 1 and 2 and red wires to terminal 3 and 4.
7. Wrap strain relief around base of cord, pinch with a pliers and snap into position.

## **INSTALLING GERMICIDAL UNIT UPGRADE (return or supply side plenum)**

1. Remove two thumb nuts holding moisture resistant lamp socket to mounting plate and remove from the plate.
2. Using the lamp mounting plate as a template, draw the hole pattern on the air duct in a suitable location.
3. Using a 1 1/4 inch Vari Bit, make two holes side by side. Clean off excess metal between the two holes with tin snips. Alternately cut a 2" hole.
4. Peel off the gasket backing from lamp mounting plate and center over hole. Secure using four self-tapping sheet metal screws provided.
5. Route the germicidal lamp connector's cord to the power supply.
6. Disconnect blue wires from terminal 1 and 2 and reconnect blue wires to terminals 5 and 6. See illustration #1.
7. Remove hole plug from bottom of germicidal unit by pinching plug from inside of unit and pushing from the back.
8. Route the germicidal lamp connector's cord into the power supply and connect blue wires to terminal 1 and 2 and red wires to terminal 3 and 4.
9. Wrap strain relief around base of cord, pinch with a pliers and snap into position.
10. Taking care not to touch the glass, hold the lamp by the end cap and insert fully into the base plate.
11. Insert the moisture resistant lamp socket over the plastic lamp end fitting over the mounting studs.  
Secure using the two thumb nut. (Photo A)

# WIRING/FUSE

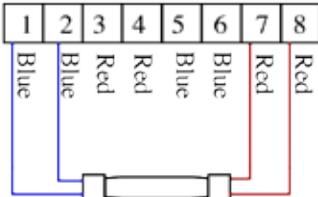
With the oxidizing unit installed, the unit must cycle with the furnace blower. Wire unit to an EAC terminal or current-sensing relay to cycle the unit with the system fan. If the oxidizing unit is not installed, you may allow unit to run continuously. The multi-voltage ballast is self-adjusting and operates with voltages from 120 - 240 VAC. For 120V wiring connect the black wire to L1, white wire to neutral, green wire to ground.

For 240V wiring install 5 amp in-line fuses then connect the black wire to L1, white wire to L2, green wire to ground. Be sure power cord is secured with included strain relief connector. Wire the unit in accordance with local wiring codes. After installing, verify voltage is operating between 120 - 240 VAC with air handler operating.

## CORRECT WIRING FOR SINGLE LAMP OPERATION.



For single lamp operation connect  
**Blue wires to 1 - 2**  
**Red wires to 7 - 8**



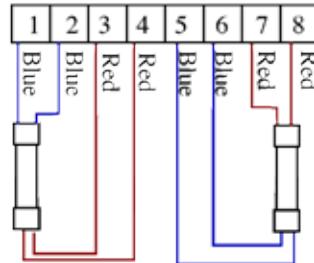
**Illustration #1**



## CORRECT WIRING FOR DUAL LAMP OPERATION.



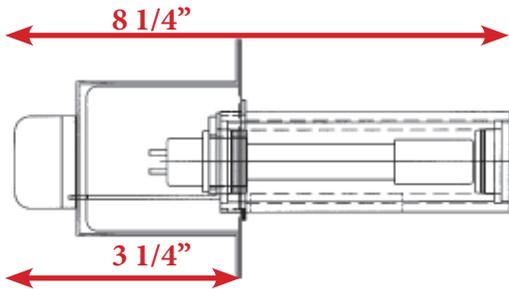
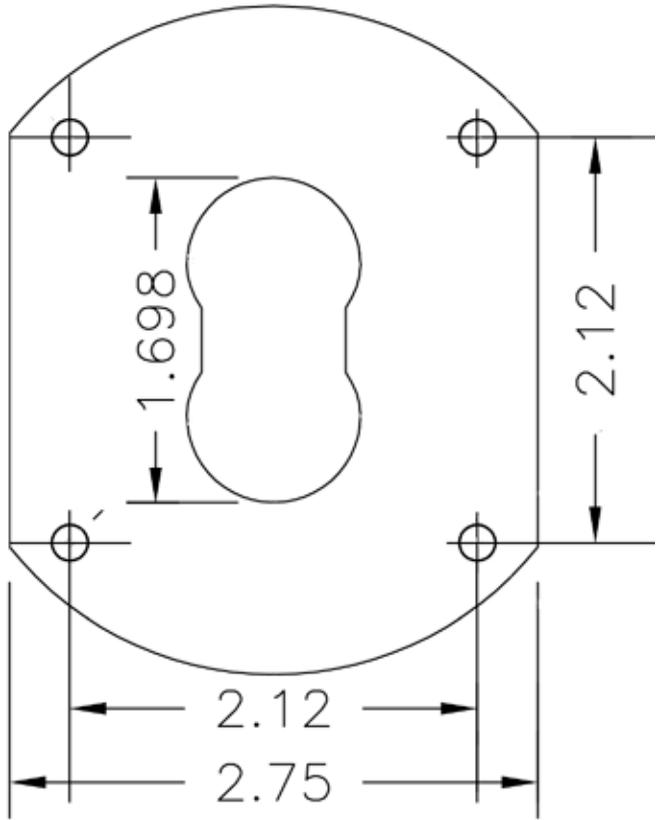
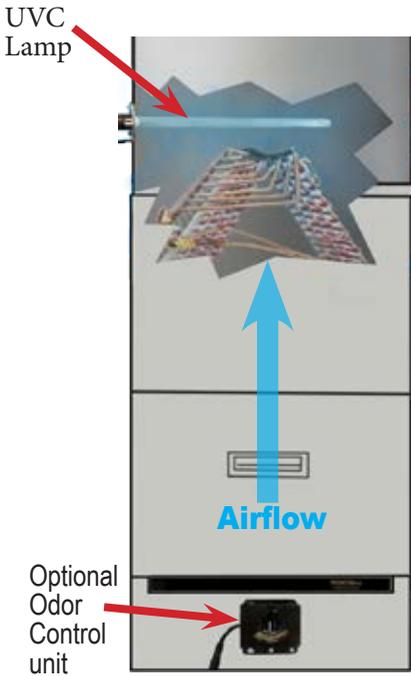
For dual lamp operation connect matching colored lamp wires to terminals.  
**Lamp A Blue 1 - 2 Red 3 - 4**  
**Lamp B Blue 5 - 6 Red 7 - 8**



**Illustration #2**



MUV7-50DR shown mounted on a heat pump with the oxidizing unit installed on the air return.



Oxidizing unit box size is 4 1/8" high x 4 1/8" wide.

Lamp socket size is 3.5" x 2.75" x 1.625"

Power box size is 6" x 5.75" x 1.5"

1. Using the lamp mount as a template, draw the hole pattern on the air duct in a suitable location.
2. Using a 1 1/4 inch Vari Bit, make two holes side by side. Clean off excess metal between the two holes with tin snips.
3. Peel off the adhesive backing of the gasket on backside of mounting plate.
4. Center mounting plate on hole.
5. Use four self tapping screws provided to secure mounting plate on the air duct.

## **SETTING THE ACTIVATED OXYGEN OUTPUT LEVEL**

- The air purification process occurs only while air is circulating through the HVAC system.
- The oxidizing level can be easily adjusted as needed using the “Oxidation Odor Control” knob on the front of the unit. Start with the setting in the normal range. Decrease the setting if an activated oxygen odor is detectable. If household odors are noticeable after 24 hours, increase the setting.

## **MAINTENANCE**

This maintenance schedule is only a guideline, determined by average conditions. Actual conditions will dictate the frequency of cleaning and/or replacement of lamps. Do not touch the glass portion of the lamps with bare hands because oils from the hands can cause “hot spots” which reduce lamp life. Handle either by the end caps or use a soft cloth. If you accidentally touch a lamp, clean it using a soft cloth dampened with rubbing alcohol.

## **CLEANING THE GERMICIDAL LAMP** - Recommended interval: 12 months

1. Disconnect power to the unit.
2. Unplug mid-cord connector by pressing the lock release (marked “PRESS” on the connector.) Remove two thumb nuts holding moisture resistant lamp socket to mounting plate and carefully remove the lamp socket with lamp from the mounting plate.
3. Using a soft cloth moistened with rubbing alcohol, wipe down the lamp. If there is a large build-up of dust particles, you may wish to use a can of air first. Do not touch the glass portion of the lamp with bare hands.
4. Carefully slide the moisture lamp socket with lamp through the mounting plate into duct fitting over the mounting studs and secure using the two thumb nuts and reconnect the mid-cord connector.
5. Supply power to the unit.

## **CLEANING THE OXIDATION UNIT LAMP** - Recommended interval: 12 months

1. Disconnect power to the unit.
2. Unplug mid-cord connector by pressing the lock release (marked “PRESS” on the connector.) Remove the two 11/32” keps nuts and remove cover. Unplug the lamp connector from the end of the lamp then remove the lamp holder using a 11/32 size nut driver. Remove the lamp by grasping the end cap and extract carefully.
3. Using a soft cloth moistened with rubbing alcohol, wipe down the lamp. If there is a large build-up of dust particles, you may wish to use a can of air first. Do not touch the glass portion of the lamp with bare hands.
4. Slide the lamp back into the lamp opening. Reinstall lamp holder and plug the lamp connector to the end of the lamp.
5. Replace the cover and align the odor control knob with adjustment linkage by gently turning the knob until linkage clicks into place. Secure cover using the two retaining nuts.

## **REPLACING THE LAMP** - Recommended interval: 24 months

Replacement lamps are available through your HVAC contractor.

Follow above procedure except #3 where you replace the lamp instead of cleaning it.

Please see next page for a list of replacement lamps available.

*(Note: standard off-the-shelf lamps are not compatible with this unit. Use of improper lamps will void warranty.)*

For Technical Support Call (800)982-1840

## TROUBLESHOOTING

With the selector switch in the ON position, the LED should light when power is supplied to the unit.

### If the LED does not light with switch in the On position:

1. Check to be sure there is power to the unit.
2. Be sure lamp connectors are fastened securely.
3. If the LED still does not light, replace lamp(s).
4. If still not operating, replace ballast.

## WARRANTY

All electronic components carry a lifetime warranty to the original homeowner. In addition there is a four year warranty from the date of installation for any subsequent owner. The manufacturer reserves the right to send replacement parts or to replace the unit at its discretion. This warranty does not cover any labor or damage resulting from improper installation or abuse. Use of any lamp other than a genuine PremierOne lamp designed for this device will void the warranty.

The original lamps are warranted for a period of two years. This warranty does not cover lamps broken during shipping, installation or as a result of improper handling.

All returns are routed through your contractor/wholesaler and must be approved and accompanied by an RGA#.

The limited warranties described above are in lieu of any other warranty, whether expressed or implied, written or oral (including any warranty of merchantability or fitness for a particular purpose.) This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



### LAMP KITS FOR MUV7-50DR

#LSK07403H-16/5 44-Watt UVC/UVV lamp service kit with 16" UV lamp.

#LSK07403H-12/5 36-Watt UVC/UVV lamp service kit with 12" UV lamp.

### LAMP KITS FOR MUV7-50PS

#LSK07401H-16 36-Watt UVC lamp service kit with 16" UV lamp.

#LSK07401H-12 24-Watt UVC lamp service kit with 12" UV lamp.

#UVV5CL 8-Watt UVV lamp service kit with 5" oxidizing lamp.

#UVC16HCP-RF 36-Watt 16" UV lamp with built in reflector.

#UVC12HCP-RF 24-Watt 12" UV lamp with built in reflector.