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# GENERAL MSP180 Owner's Manual

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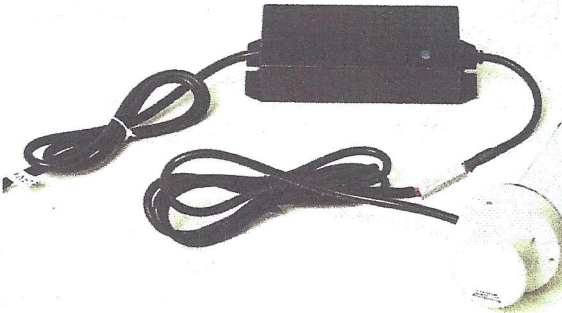
MicrobeSabrePlus

## Installation & Maintenance Instructions

Note: 50VA - 24V transformer required for operation is included.

### UNPACKING THE UNIT

Each MS-24180 UVC Lamp is shipped with the germicidal lamp placed in a box with protective packaging. When handling the germicidal lamp take care to not touch the glass portion with bare hands. Oils from the hands can cause "hot spots" which reduce lamp life. Handle by the porcelain cap or the protective paper sleeve only. Clean the lamp, using a soft cloth dampened with rubbing alcohol. The lamp is fragile and proper care must be taken when removing from packaging.



The following parts are included:

- Remote 24 VAC Ballast with lamp socket and adaptor
- Germicidal Twin H Lamp (packed in box)
- 7 Self Tapping Sheet Metal Screws
- 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. SAVE THESE INSTRUCTIONS.**
- 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- Conserver ces instructions.**
- 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**

• The MS-24180 UVC Lamp can be installed virtually anywhere in the HVAC air plenum, however best results are achieved when the unit is installed where the air temperature is most constant. Therefore, the preferred installation is on the *return side* of the furnace. If surface radiation is desired mount the unit so the lamp radiates on the desired surface.

• Do not locate the unit within 20" of any plastic material that will be directly exposed to the UV light, such as a 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 materials.

• Do not touch the glass portion of the lamp with bare hands because oils from the hands can cause "hot spots" which reduce lamp life. Handle either by the porcelain caps or the protective paper sleeve. Clean lamp, using a soft cloth dampened with rubbing alcohol.

1. Cut out shaded area of the installation template (*See page insert*). Center the template on the longitudinal axis of the plenum and attach with tape. Trace the hole pattern and cut opening for the unit.
2. Peel off gasket backing and attach lamp socket to duct using three long self tapping sheet metal screws provided.
3. Find a suitable location to mount the ballast making sure supply cord to ballast will reach 24 volt power supply. Mount the ballast using two self tapping sheet metal screws provided.
4. Holding lamp by its protective paper sleeve, plug it into lamp socket adaptor.
5. Holding lamp by the lamp socket adaptor, remove paper sleeve from lamp and carefully slide into duct through the lamp socket until it fits securely.
6. **Adhere included UV Warning Label onto ductwork within six inches of UV lamp.**

## **WIRING**

**WARNING:** Use of a power supply 50VA or larger required. It is not necessary to cycle the germicidal air purifier with the furnace blower. Allow unit to run continuously. Turn off power to air handler. Install a 50VA or larger 24VAC transformer according to local wiring codes. Connect the 24 volt power leads from the ballast to the 24 volt transformer. Turn power on to air handler and test unit.

## **ALTERNATE IN-DUCT INSTALLATION**

The UV lamp and socket may be installed inside the ductwork using the included Z bracket. Lamp maintenance may be more difficult if the unit is mounted inside the ductwork.

## **TROUBLESHOOTING**

• The LED should light when the unit is operating.

- If the LED does not light:
1. Check to be sure there is power to the unit.
  2. Be sure lamp connector is fastened securely.
  3. If the LED still does not light, replace lamp.
  4. If still not operating, replace unit.

## **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 lamp with bare hands because oils from the hands can cause "hot spots" which reduce lamp life. Handle either by the porcelain caps or use a soft cloth. Clean the lamp using a soft cloth dampened with rubbing alcohol.

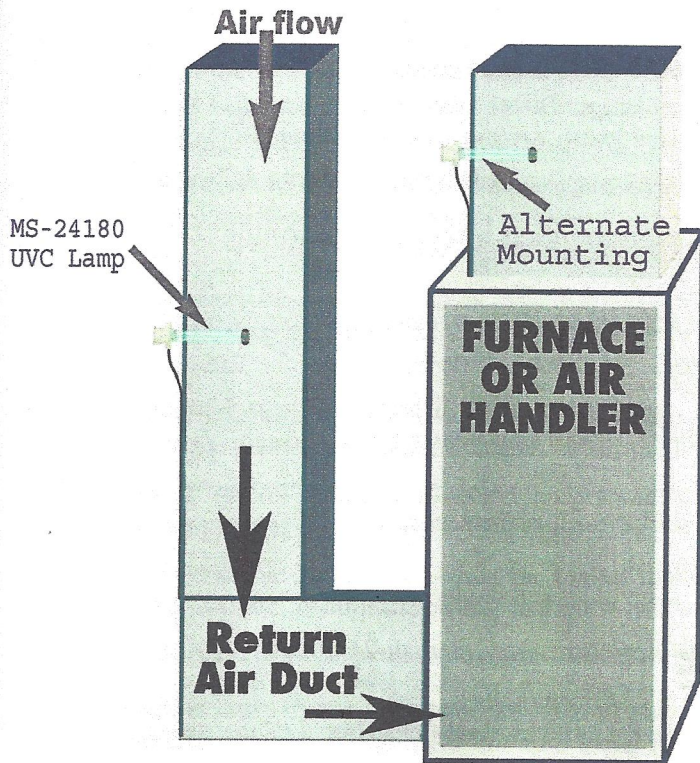
### **CLEANING THE LAMP** - Recommended interval: 12 months

1. Disconnect power to the unit.
2. Remove lamp from unit by holding the lamp socket adaptor and pull away from lamp socket.
3. Unplug the lamp from the lamp socket adaptor.
4. 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. Always handle lamp by the end cap.
5. Plug the lamp back into lamp socket adaptor.
5. Carefully slide lamp into duct through lamp socket until it fits securely.
6. Supply power to 24 V power supply.

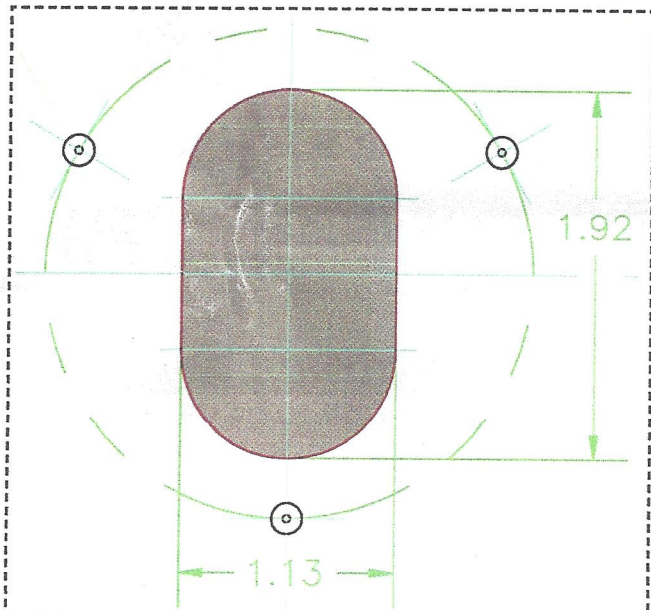
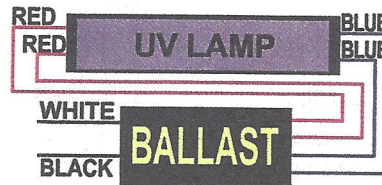
### **REPLACING THE LAMP** - Recommended interval: 24 months

Replacement lamps are available through your HVAC contractor.  
Follow above procedure except #4 where you replace the lamp instead of cleaning it. (Note: standard off-the-shelf lamps are not compatible with this unit. )

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Wiring Diagram



1. Cut out area of template indicated by the dotted line.
2. Cut out grey shaded center hole.
3. Place template on the return plenum of the HVAC system and trace the hole pattern.
4. Cut opening for the unit.
5. Install unit into air duct using the three self tapping sheet metal screws provided.

Call (248)476-5100

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