

### Facts About the MicrobeSwatter®

The MicrobeSwatter® utilizes the contaminant fighting technology of ultraviolet light to dramatically reduce airborne contaminants circulating through a heating and air conditioning system. The MicrobeSwatter®, however, is 2 to 3 times more powerful than many commonly used ultraviolet light products. This enhanced power provides far greater contaminant destruction and results in significantly improved indoor air quality.

### IMPORTANT POINTS FOR INSTALLATION

The MicrobeSwatter® is exclusively for use in HVAC systems to eradicate germicidal contamination and improve indoor air quality. The MicrobeSwatter® is creatively designed for ease of installation and convenient service. Cut just one, 2" hole and install. No screws are needed or additional holes drilled. The UV lamp assembly is held in place against a metal surface with strong magnets.

### Included in this Box

- MicrobeSwatter® Ultraviolet Light Purification System
- Electronic Power Supply
- Installation Manual
- Owners Guide

### Tools/Supplies Required for Installation

#### Into Metal Duct or Plenum

- Electrical Drill
- 2" Hole Saw
- UV Eye Protection

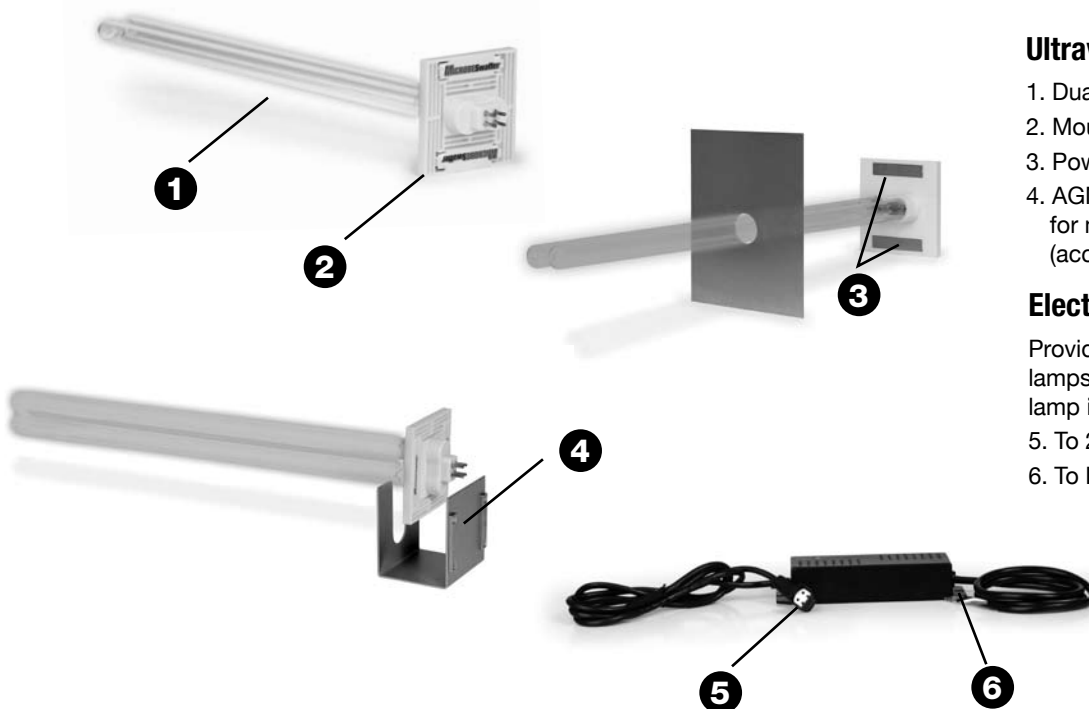
#### Into Ductboard

- Ductboard Knife
- Duct Tape
- UV Eye Protection
- 50 VA Transformer Required – Not included

## BEFORE INSTALLING

- Read all instructions carefully
- Be attentive to all warnings and cautions
- Installation should only be performed by a qualified installer

## OVERVIEW OF MICROBESWATTER®



### Ultraviolet Lamp Assembly

1. Dual-Radiant™ UV Lamp
2. Mounting Plate
3. Powerful Magnets
4. AGMGF magnetic mounting bracket for mounting unit inside duct (accessory not included)

### Electronic Power Supply

Provides constant wattage to the UV lamps. Blue LED light indicates if UV lamp is lit.

5. To 24 VAC Connection
6. To Lamp Assembly

## **INSTALLATION**

### **WARNING**

**Electrical Shock** –The unit is to be wired into 24 VAC electrical power.

**Component Failure May Result** – Dedicated 50 VA transformer required, not included.

**Ultraviolet Light is Harmful** – Never look at a lit ultraviolet lamp without UV protective glasses and skin coverings. Unplug the lamp before servicing.

**Ultraviolet Lamp May Cause Injury** – Ultraviolet lamps are made of glass and therefore somewhat fragile. Safety glasses and gloves should be worn when handling a UV lamp. In addition, UV lamps can be very hot and cause skin burns. Allow lamp to cool before handling.

1. Cut a 2" round hole in duct or plenum with a hole saw or duct knife for insertion of the UV lamp.
2. Insert the lamp into the hole. Magnets on the mounting plate will hold the UV lamp assembly secure – no screws are necessary. If mounting on ductboard, secure unit with tape, or cut a piece of sheet metal 4" x 4" and cut 2" hole in middle. Tape sheet metal plate to ductboard and insert lamp through holes.
3. Attach power supply in a suitable location and connect the power supply to 24VAC power.  
**The MicrobeSwatter® requires a 50 VA Transformer to correctly power ultraviolet lamp air purifier.**
4. Connect lamp cable from power supply to lamp.
5. If mounting inside duct, order AGMGF magnetic mounting bracket (accessory not included). Attach UV lamp assembly to mounting bracket and attach bracket (with magnet on backside) to any metal surface – no screws are necessary.

### **REPLACING THE LAMP**

#### **Steps to replace ultraviolet lamps:**

1. **READ THE WARNINGS ABOVE.**
2. Make sure power is off to the HVAC system and the UV lamp is off before opening any service panels.
3. Remove the rubberized cap covering the center part of the lamp assembly inserted into the air duct.
4. Pull out the UV lamp assembly (the lamp assembly is held in place with strong magnets), and insert new UV lamp assembly.
5. Reattach the rubberized cap making sure the lamp socket is pushed onto the metal pins tightly.
6. Restore power to the HVAC system.

### **IMPORTANT**

**This unit must be installed in compliance and in accordance with all national, state, and local electrical and mechanical codes. Failure to do so will void all expressed or implied warranty representations.**

The MicrobeSwatter® is designed for air disinfection and surface irradiation and installs into the air handling system or ductwork. Select a mounting location that offers sufficient space for the mounting plate 3" x 3" and enough internal space for the UV lamp – 16". In addition, allow for sufficient space for removal (pulling out) of the 16.25" lamp assembly. Installation also requires access to 24 VAC electrical power.

- Do not install where UV lamp is visible
- Do not install in outdoor applications
- Do not expose wiring or plastic to UV light
- Do not install beneath a humidifier
- If installed near an air filter, check with the filter manufacturer for UV properties & safety.
- The unit can be installed in either the return or supply air side for air stream disinfection or mounted anywhere surface irradiation is needed.

### **SPECIFICATIONS**

#### **Dimensions:**

- Mounting Plate: 3" x 3"
- UV Lamp 1.75" x 16.25"
- Duct Mounting Hole: 2"

#### **Weight:**

- UV Lamp Assembly: 6 oz

#### **Electrical**

- 24 VAC, 2 Amp
- UL Listed Electronic Ballast

#### **UV Lamp**

- 36 watt, 105 uw/cm<sup>2</sup> @ 1 mtr

#### **Transformer NOT included**

**50 VA Required- GA3501 Recommended**

**AGMGF magnetic mounting bracket (accessory not included)**