



MICROBESwatter *Ultraviolet Air Purification System*

OWNER'S GUIDE

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The Facts About Indoor Air Quality

The EPA has concluded that most of our exposure to toxic chemicals, harmful biologicals and allergens occurs not in the outdoor environments, as we might assume, but in the indoor environment, where we spend over 90% of our time. In a way, this is good news. We have more power over the environment in our homes and businesses than we do on the outdoor environment.

It is well established that indoor air pollution can be the result of occupational exposures, hobby, recreational or cleaning chemicals, renovations, mold in damp areas, stored papers, books, and clothing, out-gassing, dust collection and micro-organism growth in carpets and furnishings, and from poor building ventilation or contamination. The control of these pollutants is extremely important because of the long-term detrimental effect they can have on human health. Common symptoms resulting from poor indoor air quality include: headaches, fatigue, eye irritations, asthma attacks, breathing problems, dizziness, memory loss, depression, skin irritations, sinus infections, colds, flu and viruses. Even with no noticeable symptoms, however, exposure to even low levels of contaminants can increase an individual's sensitivity to the substance and potentially lead to long-term health problems.

LIMITED 5 YEAR WARRANTY

GeneralAire warrants the MS24 UVC Air Purifier against defects and workmanship under normal use and service for a period of five (5) years from date of installation. Lamp is covered under warranty for its useful life of one (1) year. This warranty is provided to the original purchaser of the air purifier and may not be transferred, sold or bartered.

This warranty does not cover damage caused by handling, shipment, negligence, misuse, cosmetic damage, acts of God, connection to improper voltage, improper maintenance, or abuse. The manufacturer is not responsible for the installation of this product. This warranty does not cover faulty installation or damage to personal property resulting from incorrect or faulty installation. The warranty does not cover the cost of removal or reinstallation of the unit or the cost of return shipping to the manufacturer.

The manufacturer's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any covered component that is found to be defective within the parameters defined herein. The manufacturer reserves the right to replace or repair the defective part or component.

The manufacturer shall not be liable for any loss or damage of any kind, including any incidental or consequential damages resulting, directly or indirectly, from any breach of warranty, express or implied, or any other failure of this product. The manufacturer's maximum liability shall not exceed the actual purchase price paid for the product. The warranties set forth herein are exclusive and the manufacturer expressly disclaims all other warranties, whether written or oral, implied or statutory, including but not limited to any warranties of merchantability, workmanship, or fitness for a particular use. This warranty does not obligate the manufacturer for any labor costs and shall not apply to defects in workmanship or materials furnished by the installer.

If you have a warranty claim, contact the company from which you purchased the product. Proof of original purchase and proof of identity as to being the original purchaser is required. Product or parts are not to be returned without factory issued Return Authorization number issued by the manufacturer.

The HVAC System and Indoor Air Quality

The heating, cooling and ventilation system in a home or business is of crucial importance in providing clean, pure air to occupants. HVAC systems not only distribute air contaminants, but often are the source of harmful indoor pollutants. The MicrobeSwatter® is a powerful air purifying product for HVAC systems that utilizes state-of-the-art technologies and provides dramatic improvement in indoor air quality.

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.

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/cm² @ 1 mtr

Transformer NOT included
50 VA Required
GA3501 Recommended

HOW DOES THE MICROBESWATTER® WORK?

The MicrobeSwatter® utilizes the contaminant fighting technology of ultraviolet light to dramatically reduce airborne contaminants circulating through your 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.

Your HVAC service company has installed the MicrobeSwatter® unit in the air duct of your home or business. The MicrobeSwatter® utilizes a Dual-Radiant™ germicidal ultraviolet lamp that produces a total of 105 microwatts of contaminant killing power (measured at 1 mtr). As air circulates through your air duct system and passes the MicrobeSwatter® unit, the powerful ultraviolet light will destroy airborne bacteria, mold, fungi, and viruses.

36 watt, Dual-Radiant™ Lamp provides over 2-3 times the killing power of the typical, ultraviolet systems.



Electronic Power Supply provides constant wattage to the UV lamps. Blue LED light indicates if UV lamp is lit.



REPLACING THE ULTRAVIOLET LAMPS

Lamp Replacement should be performed by a service technician

WARNING

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

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.

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.

ULTRAVIOLET LAMP LIFE

Like all light bulbs, UV lamps have a life span. Unlike regular light bulbs, however, UV lamps lose their effectiveness over time. Typically, after 9000 hours of use (approximately 1 yr.), the lamps do not produce enough ultraviolet germicidal irradiation to be effective and need to be replaced. However, even after this time, the lamps usually do not burn out, but stay lit. It should also be noted that some ultraviolet lamps burn out prematurely and do not last the full 9000 guaranteed hours. The MicrobeSwatter® power supply has a blue LED that indicates if the UV lamp is lit. If the LED is not lit, the UV lamp is not operational and needs to be replaced.