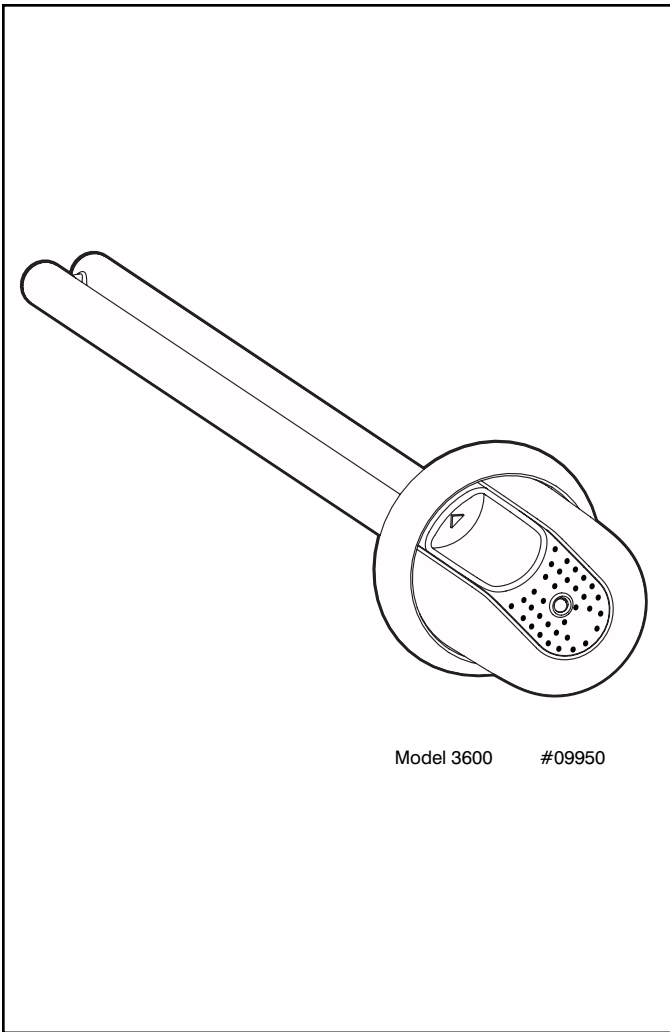


MicroPure®

Model 3600 Ultraviolet Light System

Installation & Operation Manual



GENERAL

This product is designed to help disinfect the internal surfaces of heating, ventilation, and air conditioning systems. Bacteria and viruses that are in the air stream that passes through the system will also be reduced. The result is an improved level of indoor air quality for occupants and improved system hygiene.

The MicroPure® UV system emits ultraviolet(UVC) radiation at a frequency of 254 nanometers, which has been proven effective in damaging the DNA of microorganisms such as viruses, bacteria, yeast and molds. This process either destroys the microorganism or neutralizes its ability to reproduce.

FEATURES

- Reduces or prevents mold growth on HVAC coils, allowing them to operate at peak efficiency. Also significantly reduces bacteria, viruses, fungi, and yeasts in the ductwork.
- High Output, long life UVC bulbs.
- Low maintenance and reduced costs.

INCLUDED INSIDE BOX

- MicroPure® ultraviolet light system
- UV bulb
- Mounting ring
- Mounting screws
- Mounting template
- Installation & operation manual
- UV warning label for duct
- Ductboard mounting ring

TOOLS REQUIRED FOR INSTALLATION

- Electric drill
- Phillips screw bit or screwdriver
- 2" drill bit or holecutter
- Eye protection

BEFORE INSTALLING

- Read all instructions carefully. Failure to do so could damage the equipment or cause harm to yourself or others.
- Acknowledge all warnings.
- Only qualified technicians should perform the installation.



PO Box 519
Royse City, TX 75189
PH: 1-972-635-9565
[Http://www.dustfree.com](http://www.dustfree.com)



E246425

Dimensions

3.6"L x 3.6"W x 3.4"H
16" UV bulb

Weight:

Less than 2 lbs.

Electrical:

120V/60Hz. 0.85 Amps. 36 Watts. 6-ft power cord.

Listings:

Underwriters Laboratories. Category Code ABQK (Accessories, Air Duct Mounted) UL Standards: UL 153, UL 1598, and UL 1995.

The health aspects associated with the use of this product and its ability to aid in disinfection of environmental air have not been investigated by UL.

U.S. Patent Nos. 5,334,347, 5,817,276, 6,245,293, 6,267,924, 6,280,686, 6,313,470, 6,627,000, 6,539,727, 6,932,494, 6,550,257.

Specifications subject to change without notice.

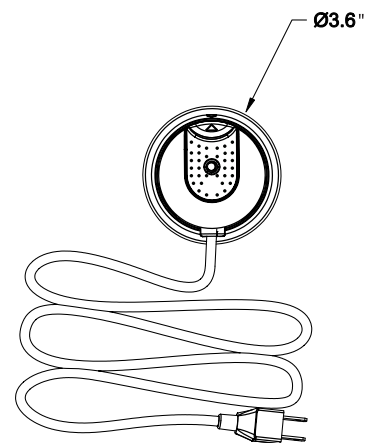
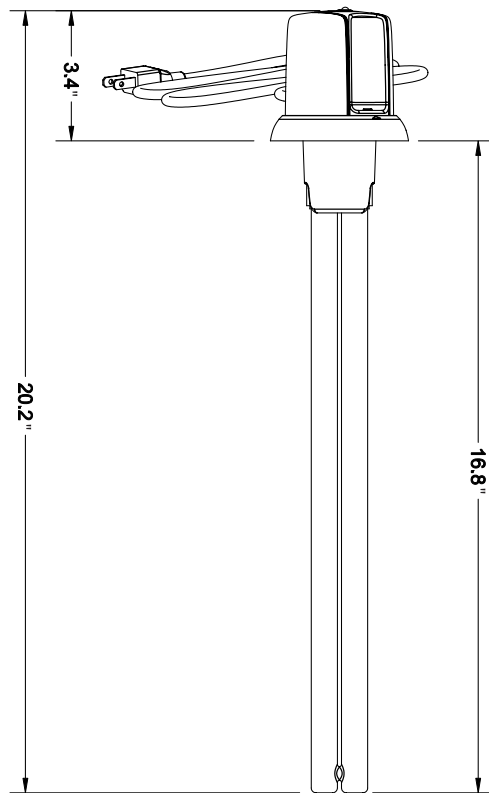


Fig. 1 Unit dimensions.

SPECIAL INSTALLATION NOTES

- Do not install in closet return grille applications.
- Do not install in outdoor applications.
- Do not expose wiring or plastic parts to UV-C light.
- Do not install where UV-C light can be seen after installation.
- Do not install beneath a humidifier.
- If the UV device is installed near an air filter or flex duct, check with the filter or flex duct manufacturer for UV-C resistance properties.
- If the UV device is installed on the inlet side (return air side) of a coil, make sure that the HVAC system is configured such that the blower is located between the return air filter and the inlet side (return air side) of the coil, such as would be found in a traditional up-flow, or horizontal furnace with the coil placed after the heat exchanger.
- If the desired UV installation location is intended to irradiate an air filter, to neutralize the microbiological matter on the air filter surface, such as would be found in the return air drop of a basement application or in the return plenum of a horizontal system in an attic; take precautions as described in note above, and make sure the UV fixture is placed on the return side of the filter. **DO NOT INSTALL THE UV FIXTURE ON EITHER SIDE OF THE FILTER IN HALL / CLOSET RETURN AIR APPLICATIONS.** (See ATTENTION! Warning sheet #212945-00).

INSTALL THE MOUNTING RING

1. Apply the supplied mounting template to the duct surface, centering the lamp hole on the duct.
2. Use a holecutter to make a 2" hole in the duct. Remove any burrs.
3. Position the mounting ring on the template, make sure that the hole in the ring is aligning with the cut hole in the duct and that the locked symbol on the ring is facing up.
Note: For ductboard installations install the ductboard ring as described before installing the mounting ring.
4. Attach the ring to the duct by driving the three supplied self-drilling screws into the duct through the screw holes in the rings. Make sure that the screw heads are fully seated in the mounting ring and no part of the screws protrude over the seating surface.

DUCTBOARD MOUNTING ONLY (Fig.2)

For ductboard installations, a ductboard mounting ring is provided. Align the pre-drilled holes in the ductboard ring with the screw alignment holes on the template. Secure the ductboard ring to the surface by screwing the four long screws(provided) into the surface at the notches in the ring. The head of the screw will hold the ring in place.

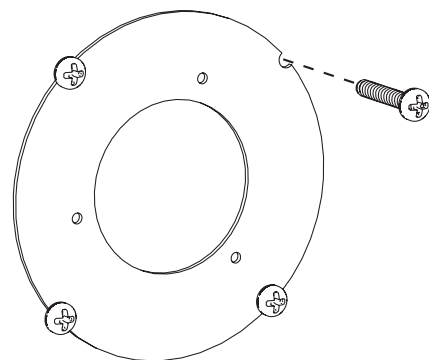


Fig. 2 Installing the optional ductboard ring.

⚠ WARNING

UVC Light Hazard.

UVC light can cause temporary or permanent loss of vision, and sunburn. To prevent exposure, do not install device in any applications that allows UVC light to be visible after installation.

⚠ CAUTION

UVC Light May Degrade Plastic and Rubber.

Shield exposed plastic drain pans, wire insulation, flex duct, or other plastic/rubber components from UVC light.

INSTALL THE LAMP (Fig.3)

Install the lamp by firmly pressing it into the unit. Use a cleaning cloth and alcohol to remove dirt and fingerprints.

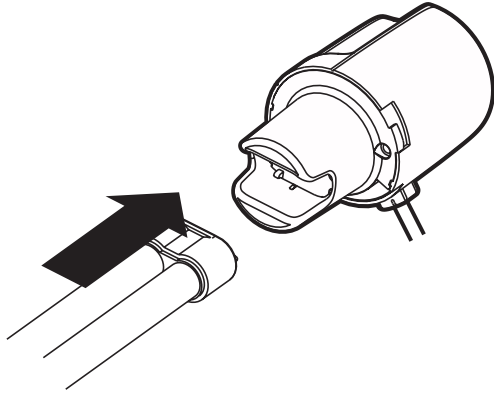
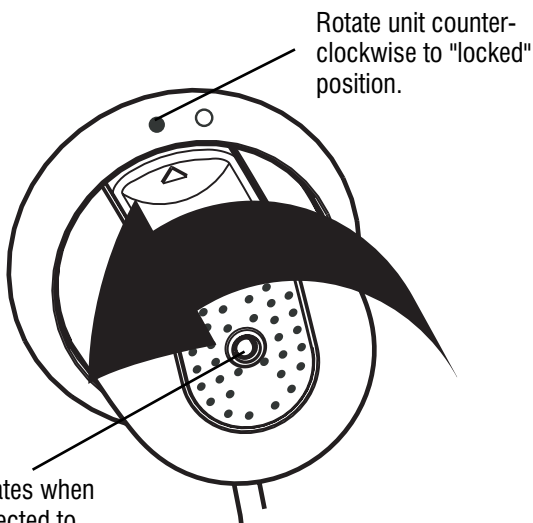


Fig. 3 Insert lamp into unit.

INSTALL THE UNIT (Fig.4)

1. Insert the unit into the mounting ring with the arrow symbol pointing toward the "unlocked" symbol on the mounting ring.
2. Rotate the UV system counter-clockwise to the "locked" position. (See Fig.4)
3. Connect the power cord to 120V power and verify the lamp is lit by checking that the LED is on.
4. Apply the included HVAC maintenance label to the duct in a high visibility location to alert future service technicians to the presence of UV light.



LED illuminates when unit is connected to power and lamp is on.

Fig. 4 Insert unit into mounting ring and rotate into place.

OPERATION

Under normal conditions the unit should be operated continuously to extend the life of the bulb, and to increase the effectiveness in disinfecting the location selected.

⚠ WARNING

Mercury Hazard. Do Not Break.

Each UVC bulb contains a small amount of Mercury. May cause redness or irritation. Use proper disposal techniques in case of breakage.

⚠ WARNING

UVC Light Hazard.

UVC light can cause temporary or permanent loss of vision, and sunburn. Take precautions to protect eyes and skin from direct exposure.

⚠ DANGER

Fire Hazard. Do not exceed voltage rating.

Severe damage to device and/or fire could result. Verify proper power with voltage meter.

BULB REPLACEMENT(Annually)

The bulb should be replaced annually even if it appears to be operating normally. UVC energy production diminishes over time.

1. Disconnect power and allow lamp to cool for 15 minutes.
2. Rotate the unit clockwise until the arrow on the knob is aligned with the "unlocked" symbol and remove.
3. Hold the unit firmly and slowly pull the lamp straight out from the unit.
4. Obtain replacement lamp and firmly press into unit. Note: If applicable, the notch in the lamp must align with the notch in the unit.
5. Insert the unit into the mounting ring and rotate counter-clockwise to the "locked" position.
6. Reconnect power.
7. Verify that LED light is on.

BULB DISPOSAL

Dispose of your spent UVC bulbs at your local recycling center. You may also send your spent bulbs in the same container you received your replacement bulbs to:

Dust Free® Bulb Reclamation
1112 Industrial Drive
Royse City, TX 75189

PROPER CLEAN-UP TECHNIQUE IN CASE OF BULB BREAKAGE

- Wear protective gloves, eyewear and mask.
- Sweep the broken glass and debris into a plastic bag, seal the bag, and dispose of properly. Contact your local waste management office for proper disposal.
- **Do not use a vacuum cleaner. Do not incinerate.**

Replacement Parts	Part No.
UVC Bulb - 16"	09951 / 36001

For information on the dealer in your area call: 1-972-635-9565.
 Visit us at <http://www.dustfree.com>

⚠ CAUTION

Clean bulb(s) prior to installation.
 Failure to remove dirt and fingerprints from the bulb(s) could shorten their lifespan.

⚠ WARNING

Burn Hazard.
 During replacement, allow bulbs to cool 10 minutes before removing them. Personal injury may result.

⚠ WARNING

Mercury Hazard. Do Not Break.
 Each UVC bulb contains a small amount of Mercury. May cause redness or irritation. Use proper disposal techniques in case of breakage.

EQUIPMENT WARRANTY

Dust Free® , LP warrants this UV-C system to be free from defects in materials and workmanship under normal use and service, for three (3) years. This warranty does not cover UV-C bulb(s), which carry a one (1) year warranty from the date of installation.

This warranty does not cover cosmetic damage, damage due to acts of God, damage as a result of handling or shipment, negligence, misuse, connection to improper voltage, improper maintenance, or abuse. This warranty is void if defect(s) result from failure to have this unit installed by a qualified, properly licensed, heating and air conditioning contractor in compliance with all local building and construction codes.

Dust Free® , LP's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any covered component of the UV-C system which is found to be defective within the parameters defined herein. Dust Free® , LP reserves the right to replace or repair the defective part or component.

Dust Free® , LP 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. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.) THE WARRANTIES SET FORTH HEREIN ARE EXCLUSIVE AND Dust Free® , LP 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. If the limited warranty is void due to failure to use a qualified contractor all disclaimers of implied warranties shall be effective upon installation.

How to make a warranty claim or have questions answered:

Should you have a warranty claim or questions about the warranty policy, contact the distributor or dealer from which you purchased the product. Proof of original purchase and proof of identity that the original purchasing party is filing the claim is required in order to initiate a warranty claim. Defective parts must be returned no later than thirty (30) days after the failure to the installing contractor together with the model number, serial number, and date of installation. All service and removal must be performed by a licensed HVAC contractor. You must pay shipping charges and all other costs of warranty service. Warranty is only valid the United States and Canada.

THIS WARRANTY SHALL NOT OBLIGATE THE MANUFACTURER FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY THE INSTALLING CONTRACTOR AS CONTRASTED TO DEFECTS IN THE GERMICIDAL LIGHT ITSELF.

NOTE: Do not return any products or parts to the factory without a factory issued Return Authorization number issued by the Dust Free® , LP customer service department.

In the event you have any questions concerning the use and care of this product or this warranty which have not been answered to your satisfaction by the distributor or dealer, please call or write the factory.

Warranty Registration Form

Please complete the form below and mail to: Dust Free®, LP, PO Box 519, Royse City, TX 75189

Homeowner/Business:

Name: _____

Company: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Country: _____

Phone: _____

E-mail Address: _____

Date Purchased: _____

Installed By:

Name: _____

Company: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Country: _____

Phone: _____

E-mail Address: _____

Date Installed: _____

Model Installed: _____