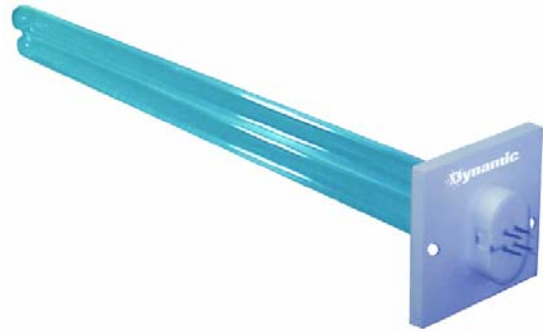




Germicidal UV Lamp

Installation Instructions & Consumer Information



Section I. Important Installer Information

The Dynamic Germicidal UV Lamp is designed for maximum air disinfection and surface irradiation. The unit installs into the Dynamic Advanced PCO Catalyst Module or it can be installed separately in the HVAC system or ductwork. The 33 watt Dual-Radiant™ UV-C lamp is two to four times more powerful than most UV-C lamps. The Dynamic Germicidal UV Lamp can be installed on either the return or supply air side of the furnace or air handler.

WARNINGS

- UV-C light will damage eyes, skin, and plastic and rubber components.
- Do not install in such a way that UV light 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 resistance.

Section II. Installation Instructions

The Dynamic Germicidal UV Lamp mounts directly to the Dynamic Advanced PCO Catalyst Module or can be installed by itself: When using the UV Lamp in conjunction with the PCO Catalyst Module, refer to the Dynamic Advanced PCO System Installation Instructions. When mounting the UV Lamp by itself, follow these instructions:

- 1) Select a location that offers sufficient space for the mounting plate 3" x 3" and a minimum of 14" internal depth for the UV lamp. Allow sufficient clearance to remove and service the UV lamp assembly. Installation will require 24VAC electrical power.
- 2) Using a 2" hole saw or duct knife, cut a 2" round opening in the duct or plenum.
- 3) Insert the lamp into the hole and attach with sheet metal screws. If mounting to duct board, using molly bolts is recommended. Care should be taken to remove any fingerprints from the lamp.

- 4) When mounting inside the duct, the UV lamp assembly may be mounted using the optional mounting bracket (included) as shown at right in Figure 1.
- 5) Select a suitable location to mount the power supply module where the UV indicator light is visible and there is sufficient wire available to reach the 24VAC power source. The ballast assembly includes 3' of wire from power to the ballast and 6' from the ballast to the UV lamp connector.

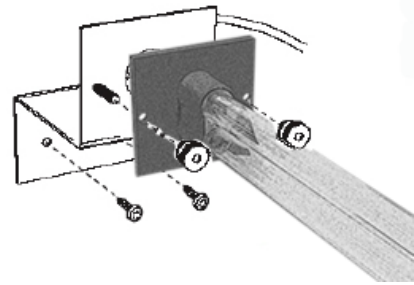
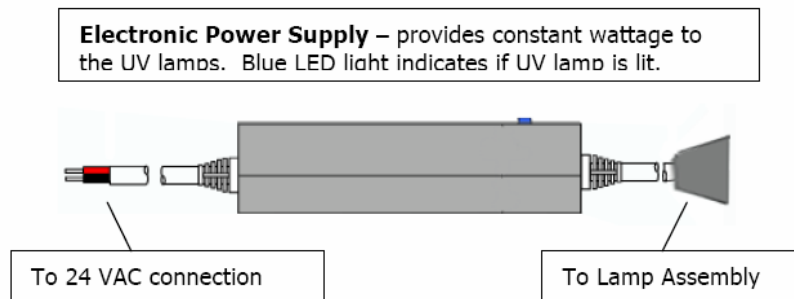


Figure 1



NOTE: ONLY A QUALIFIED ELECTRICIAN SHOULD PERFORM ELECTRICAL WIRING. THIS UNIT MUST BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL ELECTRICAL AND MECHANICAL CODES. FAILURE TO DO SO MAY VOID WARRANTY.

- 6) Connect the power supply wires to 24VAC power. **A minimum of 36VA is required.** This may exceed the available capacity of the on-board transformer in the furnace/air handler. If so, it will be necessary to install a separate transformer. An isolated class II transformer is recommended. The transformer must be installed according to local codes and ordinances.
- 7) Turn on the power to the furnace/air handler. The power indicator light on the power supply module should illuminate.

CAUTION

Ultraviolet Light Will Cause Eye and Skin Damage – Never look at an illuminated ultraviolet lamp without UV protective glasses, such as Uvex Ultraspec 2000 S0360X. Sunglasses are not sufficient. Always unplug the lamp before servicing.

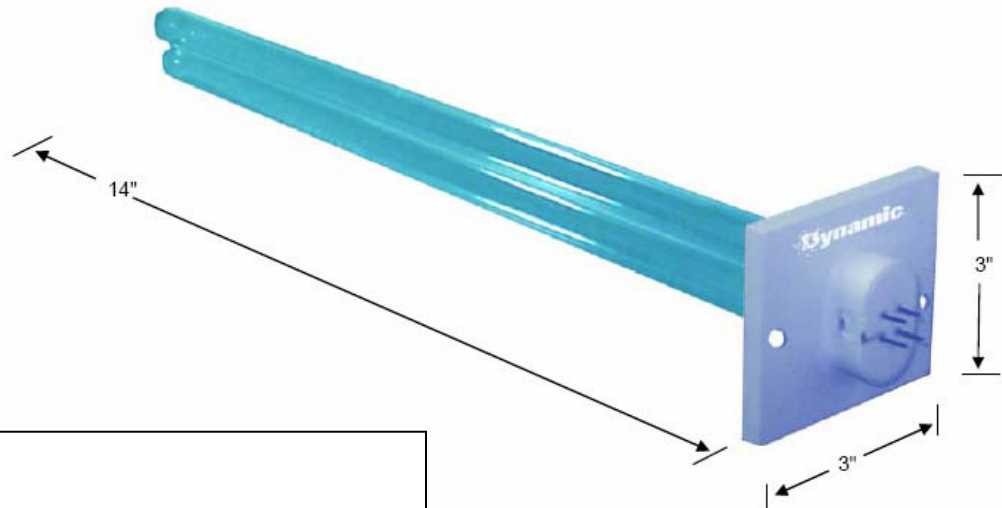
Ultraviolet Lamp May Cause Injury – Ultraviolet lamps are made of glass and therefore fragile. Safety glasses and gloves should be worn when handling UV lamps. In addition, UV lamps can become hot and cause burns. Allow lamps to cool before handling.

Section III. Maintenance and UV Lamp Replacement

UV lamps decline in output over time and are typically replaced well before they burn out. For optimum performance, the lamp should be replaced after 9,000 hours of operation. This is about one (1) year of constant use. Replacement UV Lamps are available from your heating and air conditioning contractor or by ordering online at www.DynamicAQS.com. Use only genuine Dynamic replacement UV lamps.

- 1) Make sure power is off to the furnace/air handler and the UV lamp is off.
- 2) Remove the rubberized cap from the UV lamp assembly.
- 3) Remove the screws holding the UV lamp assembly in place and remove the old lamp.
- 4) Insert the new UV lamp assembly and reattach to duct or bracket.
- 5) Reattach the rubberized cap making sure the lamp socket is pushed onto the metal pins tightly.
- 6) Turn on the power to the furnace/air handler. The power indicator light on the power supply module should illuminate.

Section IV. Dimensions & Specifications



Dimensions

- UV Mounting Plate: 3" x 3" (7.6 cm x 7.6 cm)
- UV Lamp: 1.75" x 14" (4.4 cm x 35.5 cm)
- UV Duct Opening Required: 2" (5.1 cm)
- Ballast (UL Listed): 7-1/4" x 2-1/2" x 1-3/8" (18.4 cm x 6.4 cm x 3.5 cm)

Weight

- UV Lamp Assembly: 5 oz. (142 g)
- Ballast & Wire Assembly: 3 oz. (85 g)

Electrical

- 24VAC, 2 Amps
- Ballast & Wire Assembly: 9' (274.3 cm)

UV Lamp (One Year)

- 33 watt, 95 $\mu\text{w}/\text{cm}^2$ @1 meter

Section V. Warranty

The Dynamic Germicidal UV Ballast is warranted against defects and workmanship under normal use and service for a period of three (3) 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 is not transferable.

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 any labor, 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, mis-application of the product, 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 dealer that installed the product. Proof of original purchase is required. Do not return products or parts without a Return Authorization from the manufacturer.

**FOR TECHNICAL SUPPORT
Call 1-800-578-7873**

Dynamic Air Quality Solutions
P.O. Box 1258
Princeton, NJ 08542
Tel: (800) 578-7873
Fax (609) 924-8524
www.DynamicAQS.com

Specifications are subject to change without notice. Dynamic and Dynamic Air Quality Solutions are registered trademarks of Environmental Dynamics Group, PO Box 1258, Princeton, NJ 08542