- One power supply with PCO lamp installed
- Four self tapping screws (for mounting)
- Two wire nuts (used with 24V units only)
- 24v power cord or 120v power cord depending on model
- UVC warning label
- Replacement lamp log sheet
- Large square mounting gasket
- Warranty card

- Four self-tapping screws
- Two self-tapping lamp screws
- One light shield
- One magnet with mounting screw
- One lamp mounting plate
- One lamp mounting gasket
- One 12" or 17" UVC T3 germicidal lamp
- One lamp cord w/connector
- One "Y" connector

Safety Precautions:

It is recommended that this unit be installed and maintained by a trained technician.
WARNING: UV Hazard. Always protect eyes from ultraviolet light. NEVER look at UV lamps in operation. Unplug or disconnect power before re-lamping or servicing.
WARNING: Severe eye damage or temporary blindness may occur.
WARNING: DO NOT operate outside of air handler. Mount product in preferred location first.
WARNING: No openings should be allowed which would give direct line-of-sight to the UV light.

Note: In the event of accidental breakage or replacement of the ultraviolet lamp, please ensure that the lamp is disposed of in accordance with local and state environmental laws regarding fluorescent lamps containing mercury.

Notice:

All wiring inside of the air handler in direct line of site of the UV lamp must be shielded with aluminum foil tape or equivalent non-combustible material. When installing this unit, select a mounting location that prevents ultraviolet light exposure to synthetic or other plastic components with unknown resistance to ultraviolet light. Ultraviolet light may cause color shift or structural degradation of plastic internal components.

Maintenance:

Typical maintenance of the Air Purifying System is recommended replacement of the UVC lamp every year.
UV lamps undergo a photochemical process during operation. This slowly reduces the amount of UV light generated to disinfect against airborne pathogens.

Note: For the Signature Series models you must reset the service indicator light after each lamp replacement. with the power on press and hold the RESET button for 10 seconds using a non-metallic implement. The LED should turn blue while the button is depressed. Release the RESET button, and the LED should remain blue.

Important:

When installing new lamps, ensure that the lamp glass is free from any fingerprints or debris, as this may alter the path of the UV energy. Use rubbing alcohol and a dry cloth to remove any surface contaminants.

Replacement Lamp Log Sheet:

Included with the product is a replacement lamp log sheet. It is provided as a label so it can be attached near the installation to ensure lamp replacements are being tracked.

Replacement Lamp Part Numbers:

UVPhotoMax System...........................12" Dual Spectrum Lamp AS-IH-1013
UVCatalyst System.............................12" UVC T3 germicidal Lamp..................AS-IH-1001

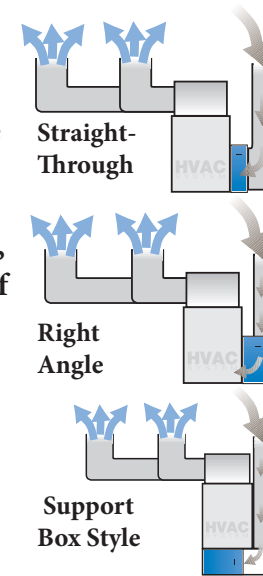### Replacement lamps for Remote EZLight Option

12" UVC T3 germicidal Lamp (Provides 2 years increase HVAC efficiency)...AS-IH-1001
17" UVC T3 germicidal Lamp (Provides 2 years increase HVAC efficiency)...AS-IH-1003

ProgressiveMedia™
Whole House Air Cleaning

To further enhance your indoor air quality try an Ultravation ProgressiveMedia Air Cleaner with your Advanced Oxidtion Air Purifier. We manufacture the filter frames that house our Progressive Media filters to the same quality standards as our high performance filter media. Built with 100% U.S origin, galvanized steel and powder coat finish, we back all of our filtration equipment with a ten year waranty.

Straight-Through

Right Angle

Support Box Style

For more information on Progressive Media Whole House Air Cleaners go to:

www.ultravation.com

Warranty:

Ultravation® UVPhotoMAX™ and UVCatalyst offers the Ultravation ten year warranty, Signature Series models have the Utravation lifetime warranty, with the exception of the ultraviolet lamp(s), which are warranted for a period of one year after date of consumer purchase.
This warranty does not include damage to the unit from accident, misuse or improper installation.
If this product should become defective, Ultravation will elect to repair or replace the product free of charge. Ultravation will return repaired or replaced warranted products pre-paid to the customer, provided that the product was delivered pre-paid.
Ultravation shall have no responsibilities for charges incurred by the customer for installation or removal of warranted items. Liability is limited only to the replacement or repair of this product.
This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. All returns must be accompanied by a return authorization number, which may be obtained by contacting Ultravation, Inc.

UltraVation®
Professional Indoor Air Quality Products

Advanced Oxidation
Air purifier

Installation and Owners Manual

UVPhotomax Series

Signature Series
models shown

UVCatalyst Series

This manual is for the following models

5TA2

Model#	Operating Voltage	Model#	Operating Voltage
SS-PTX-1224	24V	SS-UVCatalyst-1224	24V
SS-PTX-1224-12R	24V	SS-UVCatalyst-1224-12R	24V
SS-PTX-1224-17R	24V	SS-UVCatalyst-1224-17R	24V
SS-PTX-1200	120-240V	SS-UVCatalyst-1200	120-240V
SS-PTX-1200-12R	120-240V	SS-UVCatalyst-1200-12R	120-240V
SS-PTX-1200-17R	120-240V	SS-UVCatalyst-1200-17R	120-240V
PTE-1224	24V	UVCatalyst-1224	24V
PTE-1224-12R	24V	UVCatalyst-1224-12R	24V
PTE-1224-17R	24V	UVCatalyst-1224-17R	24V
PTE-1200	120-240V	UVCatalyst-1200	120-240V
PTE-1200-12R	120-240V	UVCatalyst-1200-12R	120-240V
PTE-1200-17R	120-240V	UVCatalyst-1200-17R	120-240V

Step 1.   Mechanical installation

1.Determine a location for the oxidation module. Mount the unit on the exit or supply side of the HVAC system and before the ductwork branches off.

2.Separate the power module from the mounting plate

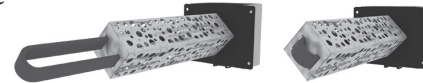**3.**Remove lamp protector used for shipping purposes. **(Fig. 1 PhotoMax only)**

Fig. 1

Remove protecive gasket from around lamp used for shipping purposes. Move module to the open position and remove gasket. **(Fig. 2 UVCatalyst only)**
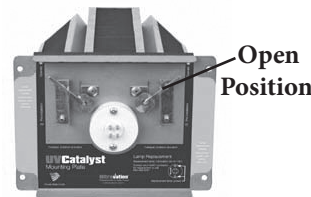
Open Position

Fig. 2

4.Mark a 4" round opening (or use the end of the oxidation module to mark the area) on the air duct and cut the hole needed for the insertion of the advanced oxidation module. Attach large sguare gasket (supplied) to air duct around 4" opening. Adjust Photon Clarifier. **(Photomax only see step 3)**

5.Insert the mounting plate / oxidation module into opening and attach to duct with two supplied self -tapping screws in the lower left and upper right (only). For UVCatalyst models ensure catalyst position actuator is in the closed position **(as shown fig. 3.)** Attach large square gasket (supplied) to air duct around 4" opening. Place module against ductwork. Fasten module in place with four self-tapping screws (supplied) in lower and uppermounting positions. Once installed push in and relocate the catalyst actuators to the open position **(as shown fig. 4).**This ensures you maxamize the surface area of titanium infused carbon to allow you to acheive maximum performance.

Fig. 3

6.Place the power module on the unit aligning holes in tabs with holes in mounting plate (upper left /lower right).

7.Secure the power module to the mounting plate with the remaining two self-tapping screws.

Fig. 4

Step 2.   Electrical installation

1. For line voltage models simply plug the 120v cord into the power supply and then into a proper recepticle follow all applicable local code.

2. 24v models must be connected to a dedicated minimum 40va transformer with supplied power cord. **(Read below)**

1. Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

2. Connect secondary voltage. Refer to voltage color or terminal coding on transformer for proper wire combination. On terminal type transformer, be sure that no exposed wire can come in contact with any terminal.

3. Connect primary voltage. Refer to voltage color coding on transformer for proper wire combination. See Fig. 1 for connection and installation.
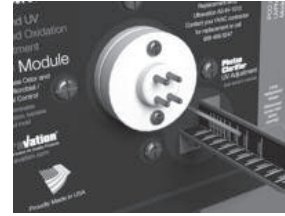
4. Tape or protect all unused exposed wire separatly to avoid a possible electrical short.

5. Check installation and reconnect power supply for proper operation.

Step 3.   Adjusting the Photon Clarifier

The UVPhotoMAX™ is a universal air purifier with a patented design that provides adjustability to the advanced photo-catalytic process for a variety of treated space sizes.
When setting up your equipment, adjust the Photon Clarifier Adjuster (under electronics cover) to the appropriate position based on the square footage of the home or CFM of the air handler. Fine adjustments may be required depending upon household living characteristics.

Lamp Replacement Procedure

The UV lamp is shipped installed in the equipment and should be replaced during an annual service. To replace the UV lamp follow the steps below**:**

1. Unplug power cord and remove power module. **(See Fig. 1)**

2. Note the position of the Photon Clarifier and pull adjustment bar to its full-out position. **(See Fig. 2 Photomax only)**

fig. 1

3. Remove lamp screws and pull lamp out of oxidation module. **(See Fig. 3)**

4. Install new lamp and fasten with lamp screws.

5. Set the Photon Clarifier to its noted setting. **(Photmax only)**

fig. 2

6. Place the power module on the unit and fasten.

7. Plug in power cord.

fig. 3

Note: For Signature Series models you must reset the service indicator light after each lamp replacement. with the power on press and hold the RESET button for 10 seconds using a non-metallic implement. The LED should turn blue while the button is depressed. Release the RESET button, and the LED should remain blue.

Installing EZ-Light 6P

1. Turn off power to system being upgraded by unplugging the power cord from power unit.

2. Remove blank plug by squeezing it from the inside of the electrical enclosure with a pair of pliers and pushing it out of the enclosure.

3. Disconnect the 6 pin connector in line with the lamp connector.

4. Connect the supplied "Y" connector to the 6 pin connector in the system and connect the lamp connector into the "Y" connector.

Note:All the connectors are specific to its location and can not be connected incorrectly.

5.Plug the lamp connector fully onto the installed UVCatalyst lamp. Be sure the four pinholes are orientated properly to the four matching pins on the lamp.

EZ-Light 6P (Option)

Some HVAC equipment can benefit from additional UV lamps. The Ultravation Air Purifying System power supply will operate a second UV lamp to disinfect additional areas inside the HVAC system such as the blower fan. The EZ-Light 6P is designed specifically for second lamp applications or add odor control capabilities.

T3
Optimized Ultraviolet

Installs in any HVAC system

Shown here with optional EZ-Light 6P
UV disinfection for a mold-free cooling coil
(EZ-Light 6P can install on either side of the coil)