

SERIES I - COIL TREATMENT SYSTEM

PRODUCT DATA

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- Remote mount bulb and ballast allow for flexible installation in any application.
- 24V / 120V/240V ballast allows easy installation to different line voltages .
- **Simply UV** can be installed in return air, coil, blower cabinet or supply duct.
- Adjustable mounting bracket allows **Simply UV** to be installed in tight locations.
- UV-C light eliminates airborne bacteria and surface mold.
- Five-year limited warranty.

APPLICATION

When installed at the air conditioner coil, **Simply UV** Series I unit helps prevent growth of surface micro-organism contaminants such as mold on the air conditioning coil and drain pan. A clean coil will restore efficiency to the cooling system. **Simply UV** can also minimize unwanted odors in the air stream.

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SPECIFICATIONS

Simply UV system is mounted at the air conditioner coil of an HVAC system. It helps prevent growth of surface micro-organism contaminants such as mold on the air conditioning coil and drain pan. A clean coil will restore efficiency to the cooling system. Simply UV can also minimize unwanted odors in the air stream.

Model #	Overall Length	Lamp Power	Input Voltage
G357-1224	14"	17W	120V/240V
G357-0024	14"	17W	24V
G406-1224	16"	20W	120V/240V
G406-0024	16"	20W	24V

Efficiency:

Simply UV kills up to 99% of mold on cooling coils.

Electrical Ratings :

Voltage Rating: 120Vac/240Vac, 50/60 Hz.

Input Current Rating: 750mA

Input Power Rating: 24W max

Temperature Ratings :

Bulb Temperature Range (in moving air): 40 to 170F

Ballast Ambient Temperature Range: 30 to 125F

Shipping Temperature Range: -30 to 150F

Relative Humidity :

Up to 95% RH, non-condensing

Dimensions:

	A
G357	14"
G406	16"

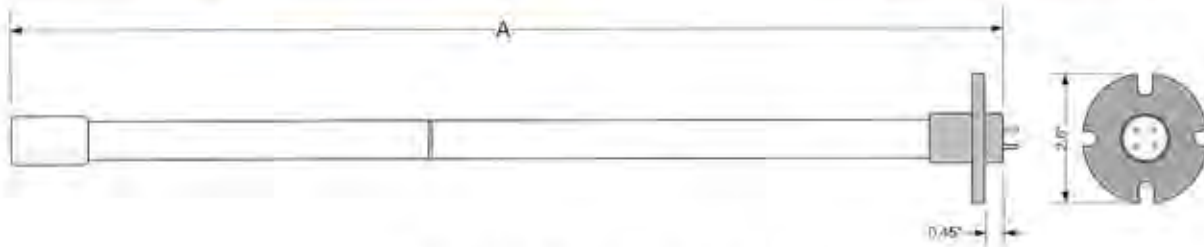


Figure 1 - Dimension in inches

SAFETY PRECAUTIONS

Please read before installing or servicing product.

When installing this product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the rating given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product

CONTACTING INFORMATION

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:



WARNING

UV Light Hazard.
Harmful to bare skin and eyes.
Can cause temporary or permanent loss of vision.
To prevent exposure to ultraviolet light, disconnect power to ultraviolet system before servicing any part of heating and air conditioning system.
Do not mount device in location that allows ultraviolet light to be seen after installation.



CAUTION

Personal Injury Hazard.
Power supply can cause electrical shock. Disconnect power supply before beginning installation. Do not open ballast or lamp handle; there are no user-serviceable components inside.



CAUTION

Equipment Damage Hazard.
Ultraviolet light can cause color shift or structural degradation of plastic HVAC materials.
Select mounting location that prevents exposure to plastic components with unknown resistance to ultraviolet light. Three feet minimum is recommended where there is direct exposure between ultraviolet lamp and plastic-fabricated devices (such as humidifiers and non-fiberglass media filters).



CAUTION

Sharp Edges Hazard.
Can cause personal injury.
Be careful when inserting ultraviolet device into sheet metal cutout.
Wear protective gloves when working near sheet metal.



CAUTION

Breakable Glass Hazard.
Can cause personal injury.
Be careful when inserting bulb(s) into lamp base. Wear protective gloves when handling lamp(s).



MERCURY NOTICE

This device contains mercury in the sealed ultraviolet lamp(s). Do not place your used lamp(s) in the trash. Dispose of properly.

Broken lamp Cleanup.
Do not use a household vacuum.
Sweep debris into a plastic bag and dispose of properly.

Contact your local waste management authority for instructions regarding recycling and the proper disposal of old lamp(s).



CAUTION

Lamp Burn Hazard. Harmful to bare skin.
Can cause severe burns.
Disconnect power 15 minutes before removing ultraviolet lamp(s).

INSTALLATION

Turn off power to air handler before installation.

Choose a location for mounting the handle that will allow maximum exposure to the coil, drain pans and internal surfaces of the air handler. The adjustable mounting bracket can be used to angle the lamp to fit in tight applications and to maximize exposure. Ballast can be mounted in the control panel of the air handler or outside of the duct when mounted in a weather-protected space. Make sure to mount ballast within reach of handle so 6-foot cord will reach.

Internal Mounting

For straight mounting, the lamp holder can be mounted right on the internal surface. Use self-tapping sheet metal screws to mount the handle in the desired location.

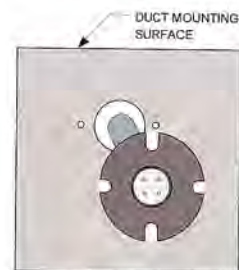


Figure 2 Direct mount to duct surface

For angled mounting, adjust the mounting bracket to the desired angle and fix in place with bolt. Use mounting screws to mount the handle to the bracket. Use self-tapping sheet metal screws to mount the bracket in the desired location.

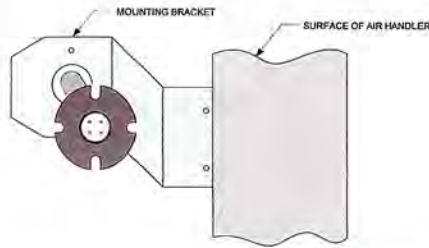


Figure 3 Angle bracket to internal mounting surface
Magnetic Bracket now standard.

Mount ballast in chosen location. Drill 3/4-inch hole to run cord from location of handle to ballast location. Use grommet to seal hole around cord.

Adhere Safety Precautions/Template sticker outside of the duct near the access panel or near the location of Simply UV and write the location of the ballast (switch) on the sticker.

Simply UV

<p>ATTENTION</p> <p>Turn off power to the ballast before serving the UV light.</p> <p>WARNING</p> <p>UV Light hazard Harmful to bare skin and eyes. Can cause temporary or permanent loss of vision. Never look at the lamp while being illuminated. Disconnect power before performing any HVAC maintenance. Read and understand manual before operating unit.</p> <p>CAUTION</p> <p>UV lamp burn hazard. Harmful to bare skin. Can cause severe burns. Disconnect power and wait 15 minutes before serving the lamp.</p> <p>CAUTION</p> <p>Breakable glass hazard. Can cause permanent damage. Be careful in removing/replacing lamp. Wear protective gloves when handling bulb.</p> <p>MERCURY NOTICE</p> <p>This device contains mercury in the sealed UV lamp. Do not place your used lamp in the trash. Dispose it appropriately. Broken lamp cleanup. Do not use a household vacuum. Sweep debris into a plastic bag and dispose properly. Contact your local waste management authority for instructions regarding recycling and the proper disposal of lamps.</p>	<p>ATTENTION</p> <p>Apagar para el lastre antes de servir la luz UV.</p> <p>advertencia</p> <p>Peligro de luz UV Perjudiciales al desnudo la piel y los ojos. Puede causar pérdida de visión temporal o permanente. Nunca mirar la luz al ser iluminada. Desconecte la alimentación antes de realizar cualquier mantenimiento HVAC. Leer y comprender el manual antes de operar la unidad</p> <p>precaución</p> <p>Peligro de quemadura de lámpara UV Perjudiciales al desnudo la piel. Puede romper causa quemaduras Desconecte la alimentación y espere 15 minutos antes de servir la lámpara.</p> <p>precaución</p> <p>Peligro de vidrio rompible. Puede causar daños permanentes Tenga cuidado al eliminar cambiar lámpara. Usar guantes de protección cuando manejo bombilla.</p> <p>Aviso de mercurio</p> <p>Este dispositivo contiene mercurio en la lámpara UV sellado. No coloque la lámpara usada en la basura. Disponer adecuadamente. Limpieza de lámpara rota No utilice un hogar limpiar. Barrer escombros en una bolsa de plástico y disponer adecuadamente. Para obtener instrucciones sobre el reciclaje y la eliminación adecuada de luces, póngase en contacto con la autoridad local de gestión de residuos.</p>
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WIRING

For 120V/230V system

Make sure the voltage selection switch is set to match the line voltage where the ballast is connected to. Plug in the power only after the lamp has been connected properly to the ballast. For hard wiring, it shall be installed by a qualified electrical technician

For 24V system

Turn off power to HVAC system before proceeding.

Connect the 24V leads of the ballast to the 24Vac transformer. 18 gauge wire can be used to extend leads if necessary. There is no polarity so that either leads can be wired to 24V hot and common.

24Vac



System is operational when both the blue and green LED indicators are on.

MAINTENANCE

Bulb cleaning is recommended quarterly as routine maintenance. Keeping dust off the bulb will keep the UV-C intensity high and maintain the kill rate of Simply UV. Use a damp cloth to wipe bulb clean.

Bulb should be replaced every year.

1. Review Safety Precautions regarding UV-C light hazard, hot bulbs, breakable glass and mercury notice on page 3 before performing any maintenance.
2. Turn power off to HVAC equipment.
3. Unplug power cord at ballast location.
4. Internal Mount: Reach through access panel and unplug lamp connector. Unscrew wing nuts and remove bulb. Protect your hands from hot light bulb.
External Mount: Unplug lamp socket. Unscrew wing nuts and remove bulb.

TROUBLESHOOTING

Simply UV has no field-serviceable parts.

Check LED indicators on ballast to see if the problem is with ballast or with UV lamp.

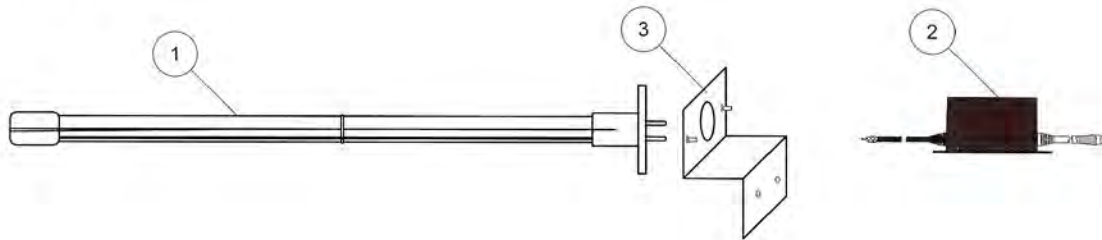
Blue LED off - UV lamp not lighting.

Green LED off - No input power

Do not attempt to look directly into the duct to see the illuminated ultraviolet bulb.

1. Check that lamp socket is firmly engaged with the lamp.
2. Unplug and plug lamp socket back onto the lamp.
3. Check for 24V power at ballast - if applicable.
4. Check cord connectors are securely fastened.
5. Check to see if bulb has burned out (blackening) and needs to be replaced.

PARTS LIST



QPA	UM	Part Number	Description
1	EA	UV406-02A	UV lamp, non-ozone, 16", 425mA, T5
1	EA	EB-1003-38	Ballast, 120V/230V, LED indicators, 24 W
1	EA	BKT-1003	Bracket, mounting, lamp, sheet metal
1	EA		Plastic bag, 5" x 5"
4	EA		Screw, sheet metal, M4, 12.7mm
2	EA		Wing nut, 3.5mm
1	EA	SL1-IM1	Manual, installation