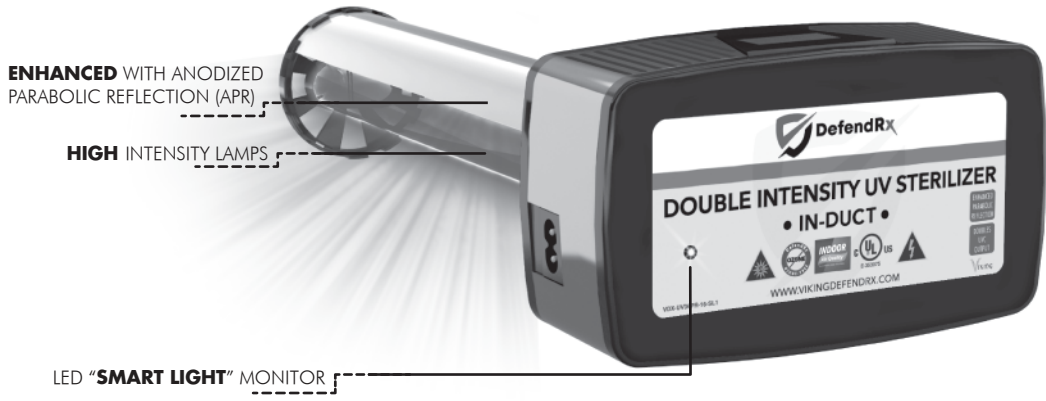




DefendRx

DOUBLE INTENSITY UV STERILIZER



Features

- Dual UVGI "Germicidal" lamps
- Enhanced with 360° Anodized Parabolic Reflection
- Multi Voltage - Auto Sensing Ballast
- Versatile Installation - Snap in & out
- High Temp for High Ambient - 190°F/87°C Max
- UVC "SMART LIGHT" Lamp Indicator
- Tandem feature for multiple units
- 5 year limited Warranty

WARNING!

- ⚠ Power supply can cause electrical shock. Be sure the UV power supply is disconnected before installation begins.
- ⚠ Do not open the ballast unit as it is designated to be installed as one piece. There are no service components inside.
- ⚠ UV light may affect plastics in the heating and cooling system. Select a location that reduces lamp exposure to plastic components that are not UV resistant.
- ⚠ Do not touch glass without gloves. Keep lamp surface clean.
- ⚠ Lamps contain small amounts of mercury. If lamp breakage occurs, clean area and dispose with care.
- ⚠ To minimize the risk of UV exposure to skin and eyes, only power the lamp when the installation is complete. Lamp illumination is confirmed by the UV safety port window.
- ⚠ Disconnect power before all lamp change-outs or servicing. There are several disconnects. We recommend completely disconnecting all power from electrical power supply.

Specifications

Replacement Lamps

Dimensions:	6 1/2" x 6 1/2" x 9" & 16"	MODEL:	LAMP:
Electrical:	24/120V or 120/240/277V	VDX-UVDIDM-9-SH1	VDX-UVDIDM-9-SH1-LAMP
Weight:	Less than 4 lbs.	VDX-UVDIDM-16-SH1	VDX-UVDIDM-16-SH1-LAMP
Humidity:	Water - resistant lamp		
Lamp Life:	9000 hours		
Power Required:	VDX-UVDIDM-16-SH1- 120/240/277V VDX-UVDIDM-9-SH1 - 120V or 24V - 40VA Supplementary Transformer needed		

! WARNING!

DO NOT connect electrical power while installing.

! WARNING!

Cover any exposed wires with reflective aluminum tape to shield the wire's insulation from UV light.

Step 1

Use rubber template for installation location. Peel off backing and mount. (Figure 1)

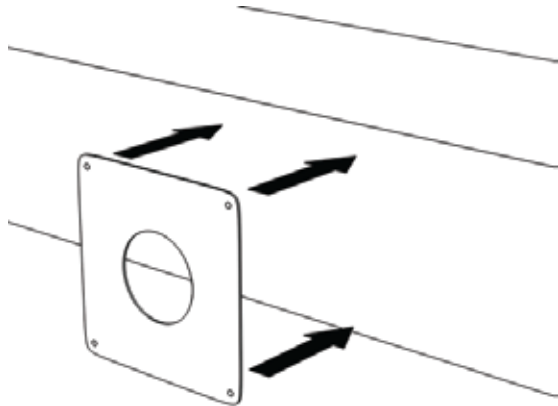


Figure 1

Step 2

Cut access hole in duct. (Figure 2)

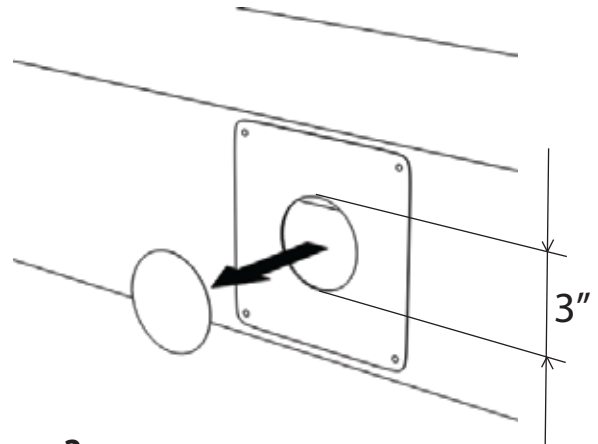


Figure 2

Step 3(a)

Mount base plate to duct - 4 screws. (Figure 3a)

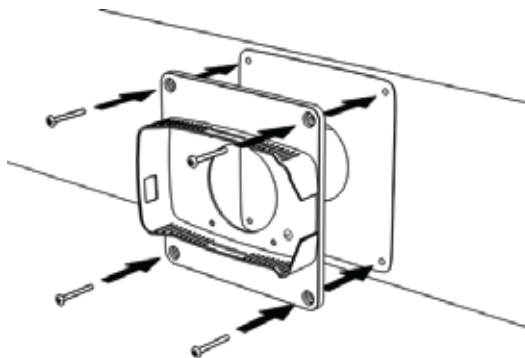


Figure 3(a)

Step 3(b)

For duct board, mount base plate as shown, using 4 nuts, bolts and washers. (Figure 3b)

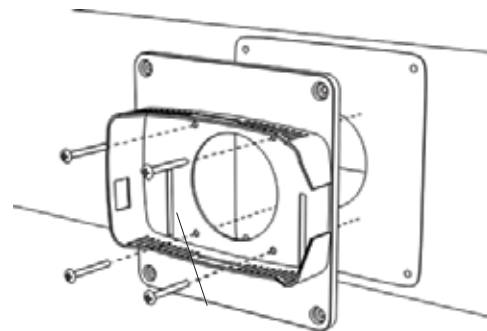


Figure 3(b) NOTE: Use 4 inside pre-cut holes for duct board

Step 4

WARNING ! LAMP IS DIRECTIONAL!

Align lamp socket key to the round black sensor on the module. Insert lamp into the back of the UV module. (Figure 4)

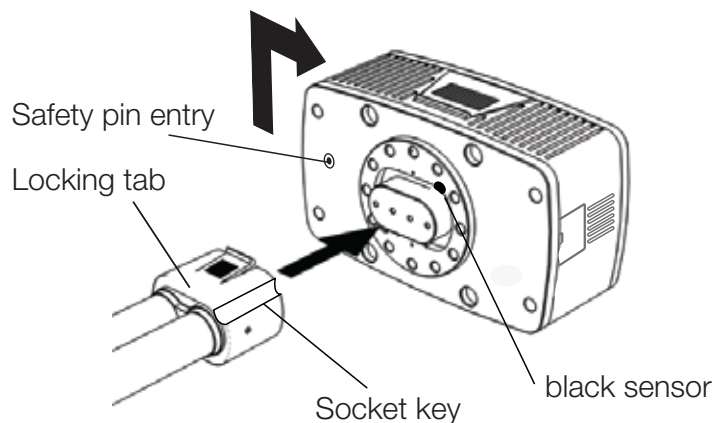


Figure 4

Step 5(a)

Note: Use of reflector is optional, but recommended if device is installed where the UV light is shining on the coil or in the cold air return duct.
Slide reflector into black reflector base ring as shown. (Figure 5a)

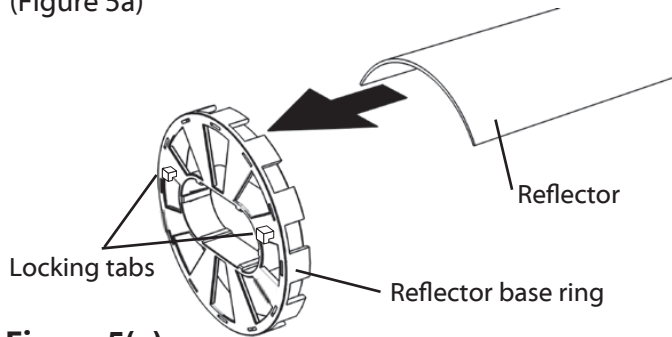


Figure 5(a)

Step 5(b)

Slide lamp into reflector assembly. (Figure 5b)

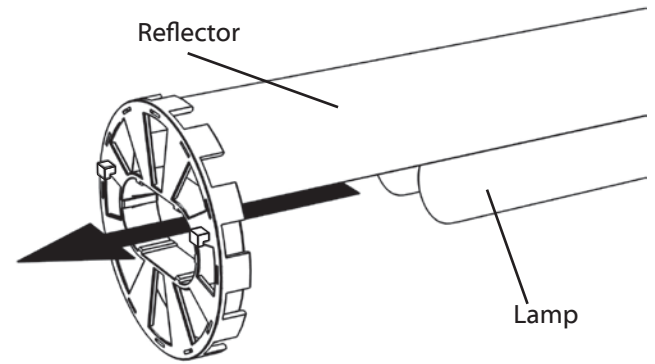


Figure 5(b)

Step 5(c)

Insert reflector assembly into power module. Choose reflector position by selecting tab location in holes. (Figure 5c)

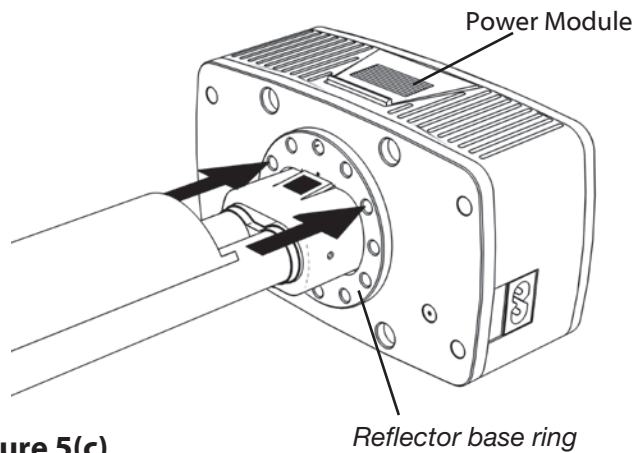


Figure 5(c)

Step 6(a)

Then, insert metal locking clip into holes as shown. (Figure 6 - a, b, c)
Insert clip under small glass bridge at lamp end. (Figure 6a)

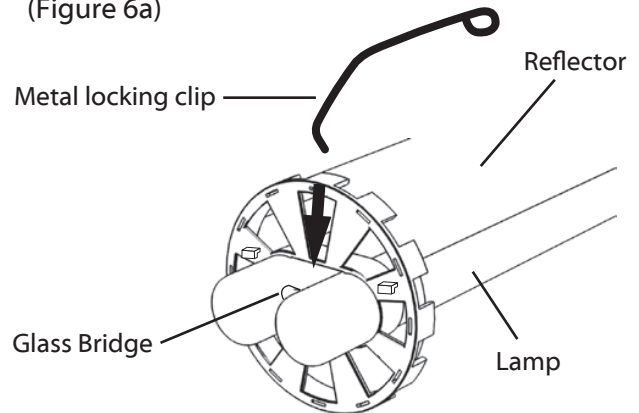


Figure 6(a)

Step 6(b)

Turn clip end down to lock into place. (Figure 6b)

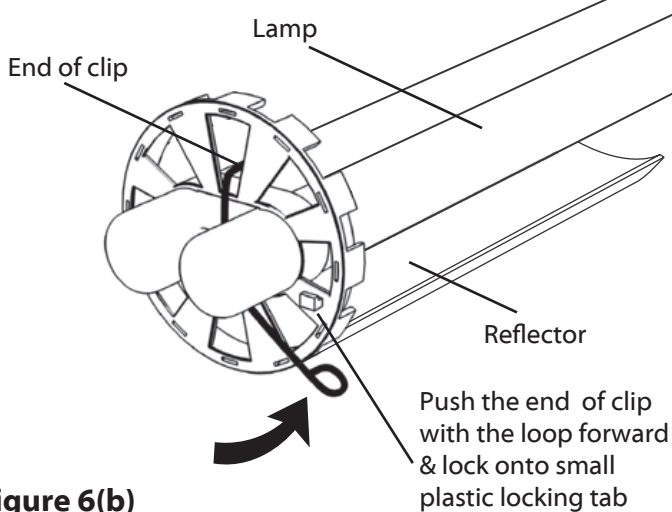


Figure 6(b)

Step 6(c)

Push end of clip up & lock onto plastic tab. (Figure 6c)

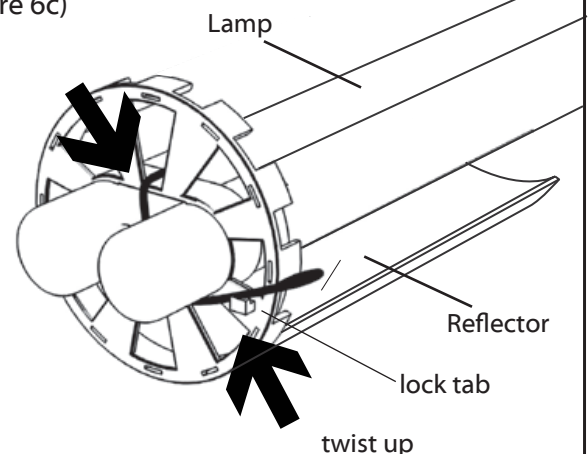


Figure 6(c)

Step 7

Slide complete power module assembly into base.
Depress top & bottom tabs into place. (Figure 7)

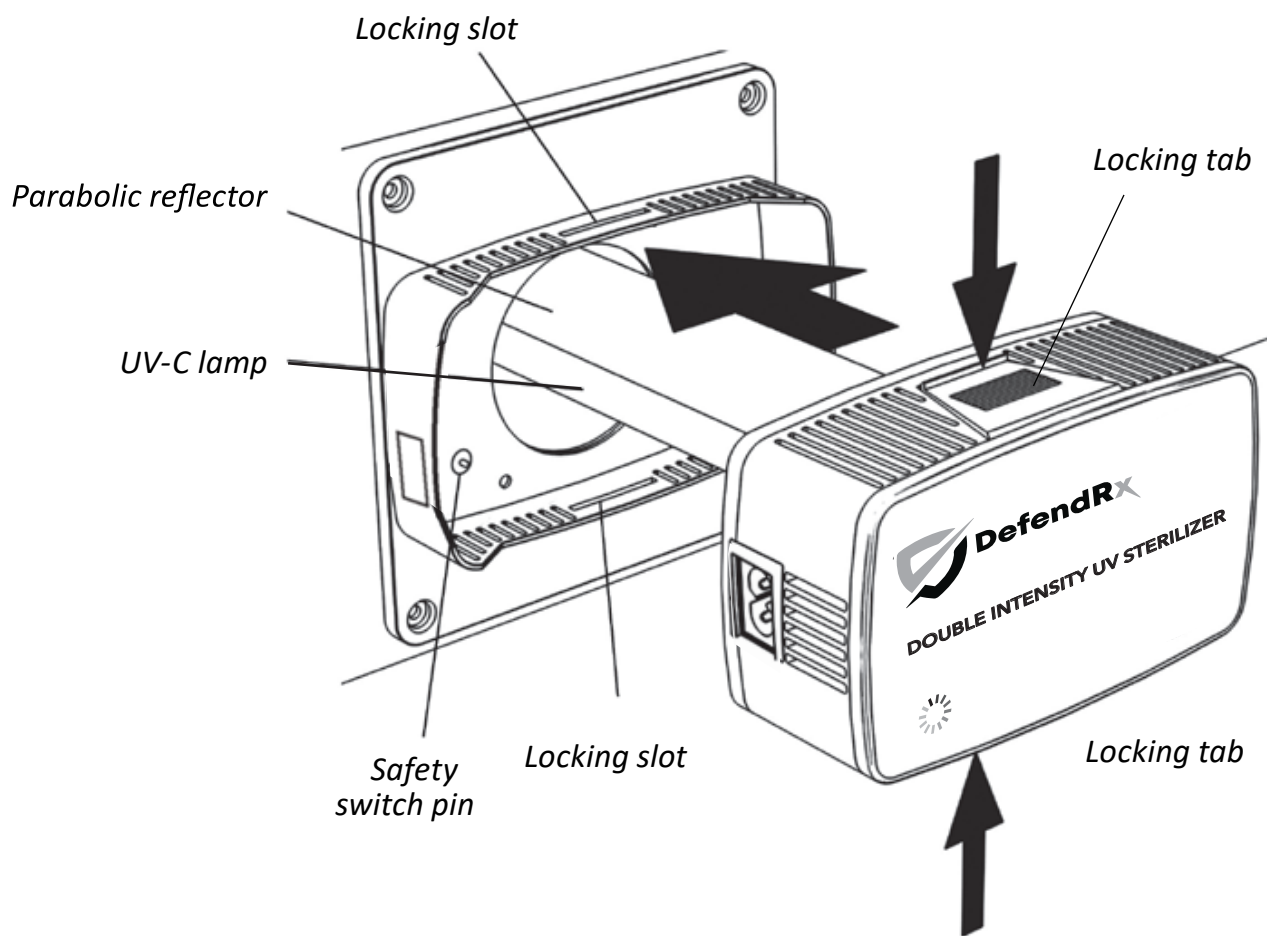
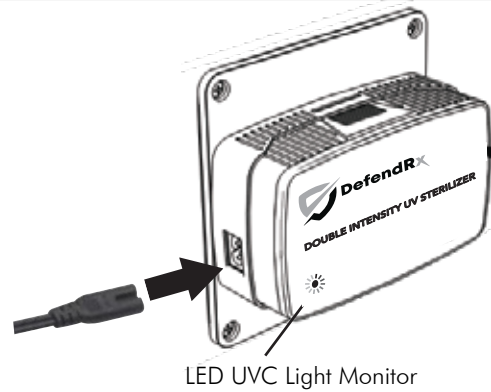


Figure 7

ELECTRICAL CONNECTION

NOTE: CONSTANT POWER IS RECOMMENDED

Step 8a) For VDX-UVDIDM-16-SH1 - 120V/240/277 Volt auto-sensing. For 120 Volt install power cord & connect to 120 Volt Power. (Figure 8a) Check that the blue UVC LED light monitor on the front of the unit is illuminated. This indicates that the internal UVC lamp is operating. For 240/277 prepare the power cord as shown in figure 8b and connect to constant on line voltage. Power cords are UL rated up to 300V.



LED UVC Light Monitor

NOTE: In some jurisdictions additional steps are required for 24 Volt & 240/277 connection
- Contact us at 866-876-8044 if this is the case.

Figure 8a

Step 8b) For VDX-UVDIDM-9-SH1 - 24 / 120V auto-sensing. For 120V - see step 8a. For 24V - A supplementary 40VA transformer is required. DO NOT connect the unit to the equipment low voltage transformer. DO NOT power the transformer until the entire UVC lamp system is installed & connected. Prepare the power cord as shown and connect to the supplementary transformer. (Figures 8b) The wires are not polarity dependent. The amperage draw for the 18 Watt system in 24Volt connection is 1.5A.

Prepare Wires



Connect to 40VA transformer



Figures 8b

NOTE: DO NOT POWER TRANSFORMER UNTIL ALL CONNECTIONS ARE COMPLETE

DAISY-CHAIN INSTALLATION:

VDX-UVDIDM-9-SH1 model - 120V only

VDX-UVDIDM-16-SH1 model - 120/240/277V

Step 9a) Units can be daisy-chained with the existing power cords provided in the box. Up to 4 units into one power source. No extra cords are needed. Up to 4 units can be connected in tandem.

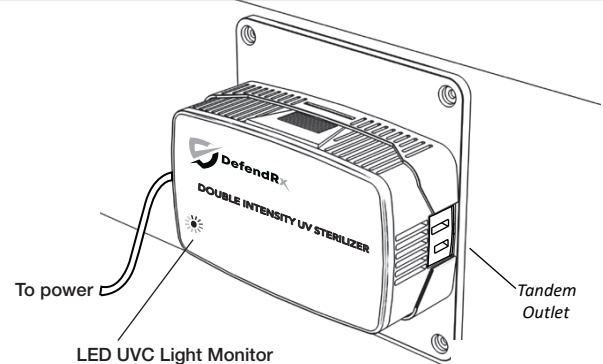


Figure 9a

Step 9b) Connect the tandem units in series linking with the unit that will be connected to the main power source. Once the tandem units are connected, connect the main unit to power. Be sure all the blue UVC LED monitor lights on each unit are lit. This will indicate that all internal UVC lamps are operating properly.

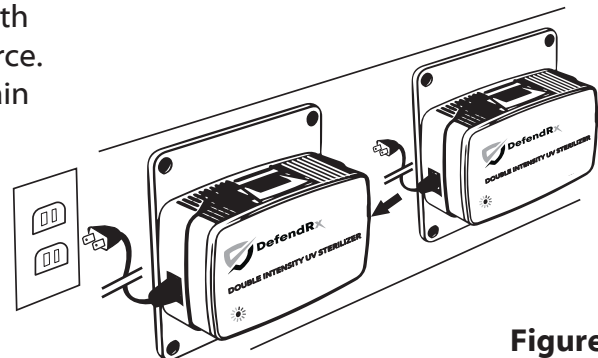


Figure 9

Maintenance

The UV Sterilizer features 9000 hour UVC Germicidal lamps. Annual replacement & maintenance is recommended to ensure optimum air cleansing & coil disinfection. Contact your local installer or customer service for assistance.

Warranty Information

The limited lifetime warranty covers any defect in materials or workmanship for a period of five years in residential applications. All lamps have a one year limited warranty. The warranty period commences on the purchase date of the product. The warranty does not cover any damage from misuse, neglect or abuse. The UV purifiers must be serviced by a certified HVAC technician on an annual basis. To make a warranty claim contact the original installing contractor with a copy of an original sales receipt or other evidence of the date of purchase.

Note: In some areas air cleaners and Ultra Violet purifiers are covered by medical insurance and may be tax deductible if prescribed by a Physician. This will vary according to local legislation. The following information is usually required.

Physician's Name: _____

Physician's Authorization: _____

Prescription: _____

Patient Name: _____

Address: _____

City: _____ State/Province: _____

Zip /Postal Code: _____