

with thumb screws.





110-277 VAC

POWER SUPPLY

#### **IMPORTANT!**

Systems with high 24 VAC loads may require the installation of a separate 24 VAC transformer to power the UV light.

Always use a separate 24 VAC transformer with "communicating" air systems and with all Dual System models.

Draws 16 VA, may need to do load calculation: Volts under load X Amps under load.



and connect directly to 110-277VAC power.

Power cord plug can be removed to expose lead wires for hard wire applications and will retain Intertek ETL Certification.

## **5** Lamp Replacement

COMMON / BLUE

HOT / RED 24 VAC TRANSFORMER

**4 PIN** 

**SIP/DIP System** 

CONNECTOR

The UV lamp in the Air Treatment System (model TUVL- 315) should be replaced every 3 years. Note: UV lamps will continue to emit visible light but lose germicidal effectiveness over time.



Conr

nec

BLACK

RED

24 VAC

POWER SUPPLY

UV LAMP

Secondary UV Lamp

Secondary UV Lamp

BLACK

Connect to load side of 24 VAC transformer

WHITE STRIPE

L1 - BLACK

L2 or N - WHITE

**GND - GREEN** 



## CAUTION!

UV lamps contain small amounts of mercury - dispose of lamps in accordance with local environmental regulations. For more information visit www.lamprecycle.org

Note: Note: Use of replacement UV lamps other than TUVL- 315, TUVL- 215, or TUVL- 115 voids warranty.

# Dual System Secondary UV Light Installation Instructions

The Secondary UV Light (included with dual air treatment systems) is typically installed at the coil for enhanced germicidal effectiveness, reduced system maintenance, and improved indoor air quality.



### **IMPORTANT!**

- Dual System lamps are wired in series connect both for lamps to light
- Only qualified technicians should install this product
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

### • Air Handler Interior Surface Installation



# Remote UV Light Configuration

IMPORTANT! Only Dual System models have the electrical capacity and attached cable to power the Secondary UV Light.

Find the secondary lamp cable on the right underside of the Dual System Main Unit.

Drill a 1" hole in the air system housing then pass the lamp cable through the hole. The hole is then sealed with the rubber grommet to minimize air leakage.



# Installation Notes

Before installing the Secondary UV Light it is necessary to determine the optimal mounting location inside the air system. First, look for the area with the heaviest mold growth. Also consider a location that will allow the germicidal UV Light to shine on the greatest surface area.

Some typical mounting locations:

- a Across top of coils
- **b** Coil "A" plate
- C Return-side duct

the materials with reflective tape.

#### WARNING PROTECT EYES FROM UV LIGHT TURN OFF UNIT OR DISCONNECT BEFORE SERVICING

Important: Some materials inside the air system (including

filter media, flex duct, wiring etc) may not be UV light resistant.

Use the optional UV shield (part #TUV-SHIELD-LPC) or cover



Mounting Options

## Ocil "A" plate or Duct Installation



- 1. Snap the magnet bracket **①** apart by bending.
- 2. Drill a 1" hole in the "A"-plate or duct then attach the smaller piece of the bracket with Self-tapping Screws (f).
- 3. Insert the UV lamp into the hole then use the plastic Quick-Nuts to attach the UV Lamp to the magnet bracket as shown.



# **O** Sight Glass Installation

- 1. Find a suitable location on the outside of the duct-work near the UV Lamp installation and apply the warning/lamp replacement sticker **()**.
- 2. Drill a 1/2" hole through the circle on the sticker. Press the sight glass (1) into hole.
- 3. Turn on the power and use the sight glass to confirm that the UV Lamp is operating.



Align Pins with Alignment Key



Push Firmly logether

# **6** Lamp Replacement

The second germicidal UV Lamp ( should be replaced every three years along with the primary lamp.

**Note:** UV lamps may continue to emit visible light after three years, however, germicidal effectiveness falls off over time and will quickly drop to near zero after three years.



**TUVL-315** 

#### CAUTION!

Hq

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**Note: Note:** Use of replacement UV lamps other than TUVL- 315, TUVL- 215, or TUVL- 115 voids warranty.