

Ballast installation

ENSURE ALL POWER TO THE AIR HANDLER UNIT IS DISCONNECTED

Locate the control panel of the air handler. Find the 24 VAC transformer or the 24 VAC terminal strip. Install the provided low voltage BLU QR Stick Light power supply inside the control panel at a suitable dry location to allow the 24 VAC power leads (black and red wires) to reach the 24 VAC low voltage transformer or terminal strip, while also allowing its attached lamp connector to reach the corresponding lamp connector provided on the BLU QR Stick Light. Use the provided self tapping screws for mounting the ballast. The BLU QR Light may be connected to any suitable 24 VAC source with an available excess of current of at least 1.05 A. Use the provided wire splices or wire nuts for the electrical connections (ensure any connections used conform to local codes). If installing a multiple lamp configuration on an HVAC unit, it is recommended that a secondary dedicated 24 VAC source be utilized and sized for at least 1.05 A per installed BLU QR unit.

Verify the available volt amps of the unit you are connecting to, prior to any installation. This can be done by checking the current and voltage of the 24 VAC transformer under full load ($VA = \text{Volts under load} \times \text{Amps under load}$), and comparing this to the ratings listed on the transformer. When using a secondary transformer, ensure it is installed in accordance with all applicable local codes.

Final wiring connection and install completion.

Connect the IP-67 lamp connector from the low voltage ballast to the corresponding IP-67 lamp connector on the BLU QR Stick Light lamp assembly. Ensure the O-ring is visible and clean, align plugs, push together, screw the outer lamp fastener to a snug fit (hand tight).

Route the wires as to provide a clean, professional installation.

Replace all access covers. Drill 1/2" hole in panel near lamp for sight glass to be affixed to monitor lamp condition.

In a visible location on the access panel to the BLU QR Stick Light unit, adhere the yellow and red "CAUTION: UV Light" sticker.

Write down the installation date and recommended replacement date (this is dependent on 1 or 2 year model installation).

Replace unit power.

Maintenance

To determine lamp status, periodically look at lamp status LED indicator located on the 24 VAC ballast (typically installed in the control panel of the HVAC air handler). If illuminated lamp is on and working. If the ballast LED is obstructed, use the provided secondary acrylic site glass mounted near lamp location. If blue glow is visible, light is on.

Lamp replacement

It is recommended that after one or two years (dependent on model installed) that the BLU QR lamp be changed out to maintain optimum lamp performance. Ensure all power to unit is removed prior to any lamp replacement.

For through mounted units:

Simply power down AC handler (removing all 24 VAC power). Unscrew the IP-67 lamp connector, push in and then twist, then pull out the old BLU QR lamp assembly. Replace with new lamp assembly. Simply insert lamp into QR base, push in and twist to lock. Reconnect IP-67 connectors, and then restore unit power.

For internally mounted units:

Ensure all power to unit is removed prior to any lamp replacement. Remove access cover and locate BLU QR.

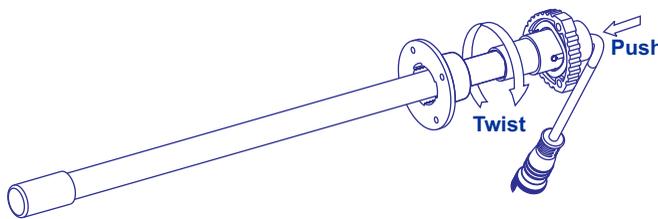
Unscrew the IP-67 lamp connector, push in and twist, then pull out the BLU QR lamp assembly, and replace with new one in reverse order. Reconnect IP-67 connector, replace cover, and restore unit power.

For direct Mount BLU QR installations:

Ensure all power to unit is removed prior to any lamp replacement. Unscrew the three (3) self-tapping screws, remove lamp and replace with new one.

Lamp replacement part # BQR+141Y (1 year warranty)
BQR+142Y (2 year warranty)

Patents pending Quick Release Lamp



Conforms to:
UL-1598-09:2009
CAN/CSA C22.2 No. 250.0:2008
EN 60335-2-65:2003

BLU QR™

QUICK RELEASE A/C COIL ULTRAVIOLET TREATMENT SYSTEM

INSTALLATION INSTRUCTIONS

SAFETY PRECAUTIONS:



WARNING

**NEVER LOOK DIRECTLY AT UV LIGHT
DISCONNECT UNIT BEFORE SERVICING**



**THIS UNIT IS INTENDED TO BE INSTALLED BY A QUALIFIED,
LICENSED TECHNICIAN. ENSURE A PROPER DISCONNECT
IS IN PLACE TO REMOVE POWER FROM UNIT**

•To prevent electrical injury -
DISCONNECT POWER BEFORE SERVICING.

•Product emits germicidal ultraviolet energy, never handle or look directly at an illuminated unit - **SERIOUS EYE INJURY CAN OCCUR.**

•Once installed, ensure the provided yellow CAUTION sticker is affixed on a visible location on the outside access cover to the HVAC unit. This ensures future service technicians are aware of UV being used within the unit.

Manufactured by RGF Environmental Group, Inc. Riviera Beach, Florida

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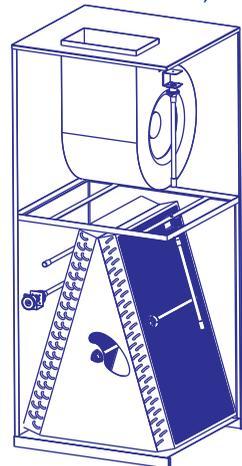
Your new BLU QR kit contains the following:

- QR Lamp assembly (1 or 2 year options)
- 24 VAC Input Electronic Ballast with LED status indicator
- QR lamp base, with U bracket and attached Magnet
- Spring Washer (1) to be used on either side of QR lamp
- #6 x 3/4" self-tapping screws (6)
- # 10 x 3/4" self-tapping screw (1)
- Sight glass eye (1)
- Splice connectors (2)
- Blue wire nuts (2)
- Caution label (1)
- Instructions, mounting template and warranty form.



Installation

The BLU QR light kit allows for installation of the germicidal UV light in multiple different ways. Determine the best location within the air handler that exposes the most coil surfaces possible to the germicidal UV light. If used to treat existing HVAC coils, target the areas showing the most visible microbial growth. As UV light technology is a line of site treatment, multiple BLU QR lights on a single HVAC installation would be ideal for getting maximum coverage (this is not a requirement, just preferred for complete surface treatment).



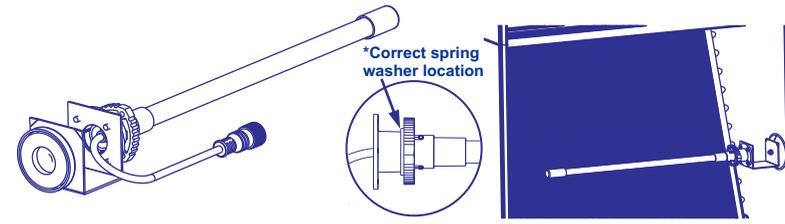
Multiple mounting options

For single lamp installations in an "A" coil type unit (most common), it is usually preferred to have the lamp placed at the center of the "A" plate. This position allows the most UV light to strike both return side surfaces of the evaporator coils as well as the drain pan. Maximizing the UV energy on these wetted surfaces will help prevent the fouling of the coil surfaces. As well as deter slime build up in the drain pan. Many newer A coil plates now come with pre punched lamp installation holes or plastic plugs.

Note: Not all materials in an HVAC unit are compatible with Germicidal UV light waves. If unsure of material compatibility contact the manufacturer of the HVAC for guidance. It is recommended to cover any flex duct, plastic, and HVAC wiring with metal duct tape if unsure of compatibility to UV rays.

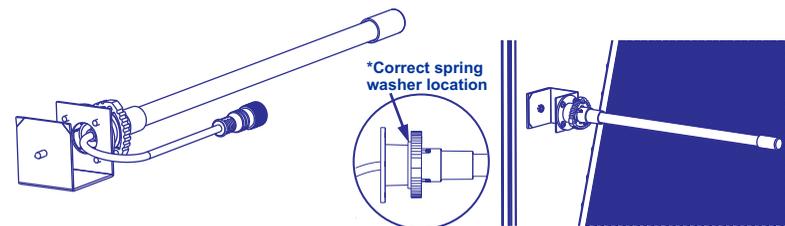
Magnetic Mount

For the magnetic mount option. Locate a flat metal mounting location in the air handler for the BLU QR U bracket and magnet to attach to. Ensure to allow room so it will not have any obstructions when the QR lamp is installed. If attaching to a side panel, use a razor knife to cut a 3" slit into the side panel insulation. Then pull the insulation back, insert the magnetic disk into the cut slit (while attached to the U mounting bracket), and then reposition the insulation over the magnetic disk after attached.*Install the spring washer on QR lamp (see below for correct side). Finally, simply pull the BLU QR lamp connector wire through the QR mounting base, then push down and twist to install the BLU QR lamp. Connect the ballast to the lamp with the mating IP-67 connector.



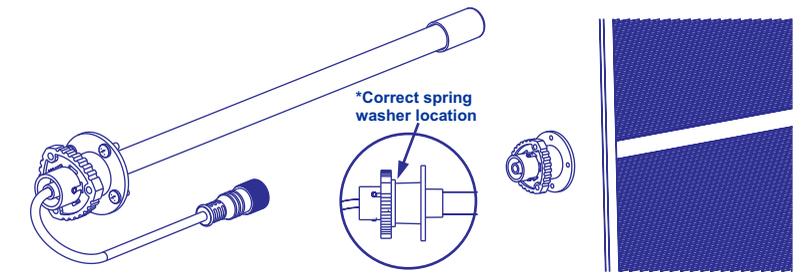
Bracket Screw Mount

For the screw mount option with U bracket. Remove the magnetic disk from the U bracket. Locate a suitable flat surface to mount the U bracket (mark the center hole location). Then dependent on surface material, either pre-drill or simply use the included self-drilling #10 fastener to secure the U bracket.*Install the spring washer on QR lamp (see below for correct side). Finally, simply pull the BLU QR lamp connector wire through the QR mounting base, then push down and twist to install the BLU QR lamp. Connect the ballast to the lamp with the mating IP-67 connector.



Through Panel Mount

For a through panel installation with the QR Base mount. Remove the QR Base Mount from the U bracket. Locate a suitable flat surface to mount the QR Base Mount (ensure no obstructions are located inside the HVAC unit). Mark the center hole and four mounting hole locations on the panel with the provided template. Drill a 1" hole at the center location for lamp to pass through. Then dependent on surface material, either pre-drill or simply use the included self-drilling fasteners to secure the QR Base Mount.*Install the spring washer on QR lamp (see below for correct side). Simply slide in the QR lamp through the QR base, push and then twist to lock lamp into position. Connect the lamp to the ballast with the mating IP-67 connector.



Direct Mount

For direct mount Installations (no U bracket or QR base, used when space does not allow for other mounting options). Locate a suitable flat surface to mount QR Lamp Assembly with no obstruction in HVAC. Mark the center hole and three mounting hole locations with the provided template. Drill a 1" hole at the center location for lamp to pass through.*Install the spring washer on QR lamp (see below for correct side). Then use the included self-drilling fasteners to secure the QR Lamp. Connect the lamp to the ballast with the mating IP-67 connector.

