

GENERAL INSTALLATION INSTRUCTIONS

UV-C Fixture Framing Installation Kit

P/N: 55002005



CAUTION! Never Expose Eyes or Skin to UV-C - Read all Materials before Starting SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your supplier for information or assistance. The qualified installer or agency must use factory kits or accessories when installing this product. Refer to the individual instructions packaged with kits or accessories when installing them. Follow all safety codes, wear safety glasses and work gloves. Read all instructions thoroughly and follow any warnings or cautions attached to any accessed area. Consult local building codes and the National Electrical Code (NEC) for all applicable requirements.

Understand the signal words **DANGER**, **WARNING** or **CAUTION**. These words are universally used for overall safety. **DANGER** identifies the most serious hazards which result in severe personal injury or death. **WARNING** signifies hazards, which could result in personal injury or death. **CAUTION** is used to identify unsafe practices, which would result in minor personal injury or product and property damage.

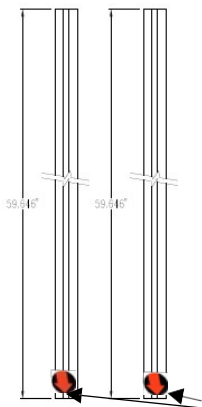


WARNING: Before installing or servicing this unit, turn off all power; there may be more than one (1) switch.

GENERAL: The UV-C Fixture Framing Installation Kit includes extruded aluminum vertical supports designed for installation of UV-C fixtures (e.g., RLM Xtreme™) in an air handler plenum. Typical installations require multiple Kits for proper UV-C lamp mounting. Two ~60" vertical supports can be "spliced" together to accommodate a plenum height up to ~120", while three vertical supports "spliced together" can accommodate a plenum height up to 177". The vertical supports can be cut to accommodate, virtually, any plenum height below. Once installed, product accessories (e.g., RLM Xtreme LampLoom Kit, Quick Slip Kit, etc.) can be used to mount the UV-C lamps to the vertical support.

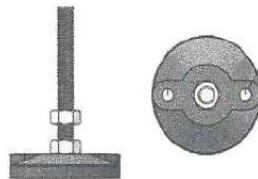
What's Included Per Kit:

~60" Vertical Support x2

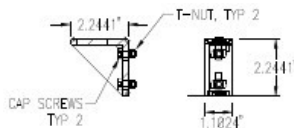


VERTICAL SUPPORT
SPLICE X2

Leveling Foot x1



Ceiling Gusset x1



Tools Needed:

- Drill motor
- 5/16" Hex socket
- Allen Wrench (provided)
- 19 mm/ 3/4" Crescent Wrench (for Leveling Foot Nut)
 - Aluminum Cutting tool: Hacksaw, Sawzall, etc.

What's included per kit:

- 2 ea. ~60" extruded aluminum supports – one end threaded for Leveling Foot
- 2 ea. Vertical Support Splice (with nuts & bolts)
- 1 ea. Leveling Foot
- 1 ea. Ceiling Gusset (with nuts & bolts)
- 1 ea. M6-Hex-Key - Allen Wrench
- 4 ea. #12 x 1 1/2" Self-tapping screws
- 1 ea. Quick Slip Kit
 - 2 Screws
 - 1 Fender Washers
 - 2 T-Nuts
 - 3/4" ID Grommet
 - "C" Clip Dia 0.26 Mounting Hole
- Installation, Operation Manual (IOM)

Kits Needed:

** Plenum Height Up to 58" **

Part Description	Part Number	RLM Xtreme 61" Lamps Wide				
		1	2	3	4	5
UV-C Fix. Install Kit	55002005	1	2	2	3	3
Gusset Kit	90003000	1	1	2	3	3
Level Foot Kit	90003010	1	1	2	3	3

** Plenum Height from 59" to 118" **

Part Description	Part Number	RLM Xtreme 61" Lamps Wide				
		1	2	3	4	5
UV-C Fix. Install Kit	55002005	2	3	4	5	6

** Plenum Height from 119" to 177" **

Part Description	Part Number	RLM Xtreme 61" Lamps Wide				
		1	2	3	4	5
UV-C Fix. Install Kit	55002005	3	5	6	7	8

INSTALLATION:

1. Determine how many Kits will be necessary for installation (see chart above) or refer to submittal drawings if provided.
2. Survey the plenum where the UV-C fixture(s) will be installed
3. Determine where Vertical Supports will be located relative to the width of the plenum to accommodate the fixture:
 - It is recommended that vertical supports be installed approximately 5 ½" away from the plenum wall to accommodate LampLoom wiring.
 - If there are three vertical supports used, the middle support should be centered between the two outside vertical supports to support the lamps; Note lamps can overlap in the middle of the plenum (see submittal drawing if supplied).

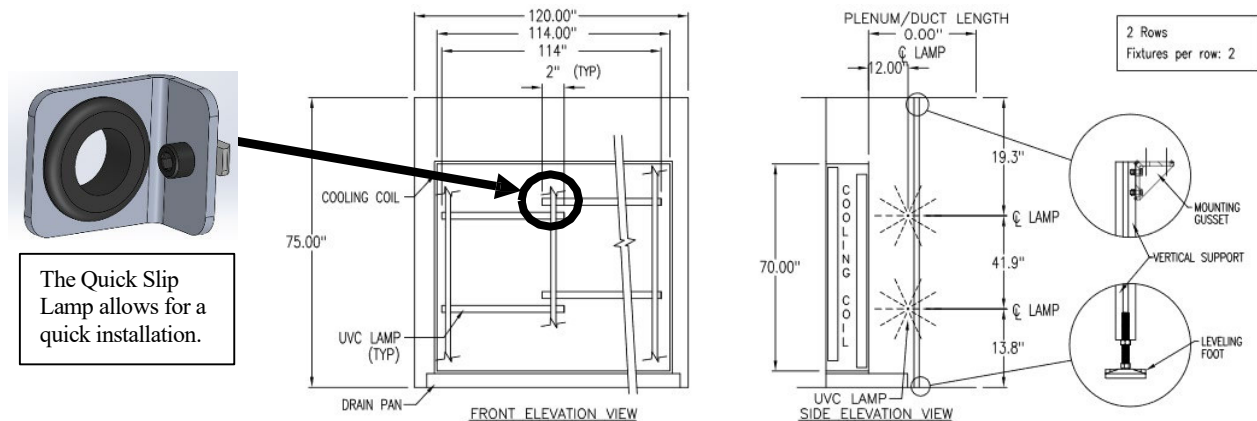


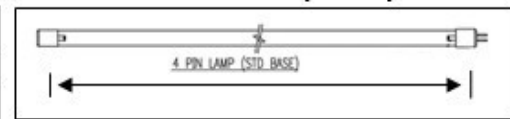
Fig. 1 Example of UV-C fixture submittal drawing

4. Once the location of vertical supports is determined, measure from the floor where the Leveling Foot will be located to the ceiling where the Gusset will be located (measure each vertical support location separately as height may differ by location).
5. Mounting of the vertical supports must not exceed the Lamp Spacing described below.

Lamp Spacing Table

Nominal Lamp Length	Distance between Lamp clamps
33" (long) RLM UVC Lamp	Approximately 31.5"
61" (long) RLM UVC Lamp	Approximately 59.5"

Distance between LampClamps



NOTE: WHEN THERE ARE 3 OR MORE SUPPORTS – LAMPS MAY OVERLAP ON THE MIDDLE VERTICAL SUPPORT(S)

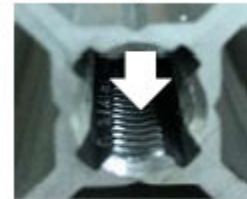
6. NOTE: Take the total height from the floor to the ceiling and subtract 2 ½" for the leveling foot to determine total Vertical Support length needed

(e.g. 75" (total height) – 2 ½" (leveling foot) = 72 ½" total Vertical Support Length)



- Once the height is ascertained, determine if one, two or three supports spliced together will be necessary (in the example above (Fig.1), two supports will be needed).
- If two or more verticals are spliced together, determine total length and how much of the second or third piece will need to be cut (Note: ALL Vertical Supports supplied are threaded on one end (indicated by red arrow), when cutting be sure you do not cut off the end with the threads (Image 1).

Image 1



DO Not Cut End with Threads

- Prior to cutting measure again (i.e. measure twice, cut once)
- Use a "square" tool to insure a square cut (Image 2).
- Using a cutting tool, e.g. hack saw, Sawzall, etc. cut the Vertical support to length (Image 3).



- Using Vertical Support Splice and supplied Allen wrench, splice together two pieces of Vertical Support (Image 4). Note, two splices have been supplied and can be used on both sides of the extrusion for further strength.



- Screw in Leveling Foot into the bottom (threaded end) of Vertical Support (Image 5).

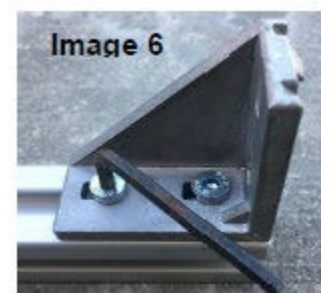


Locking Nut

- Attach Gusset to the top of the Vertical Support using supplied hardware and Allen wrench (Image 6).

- You are now ready to install the vertical support(s).

- At the predetermined locations, screw the top of the Vertical Support to the ceiling using the Gusset and the supplied #12 x 1 ½" self-tapping screws (x2).



- Secure bottom of Vertical Support by screwing Leveling Foot counterclockwise until it is tight against floor (use ¾" (19mm) crescent wrench to tighten (increasing pressure)). When desired tightness is attained, tighten "locking nut" (clockwise) to base of Vertical Support to secure height.

- Optional: #12 x 1 ½" self-tapping screws can be used to screw the Leveling Foot into the floor to secure (note, do not drill/screw into drain pan or over-flow drain pan).

17. Repeat this procedure for each Vertical Support.
18. It is recommended that all penetrations made into AHU floor or ceiling be sealed with an acceptable sealant to prevent water intrusion.
19. You are now ready to attach the Quick Slip brackets (provided with the RLM Loom Kit). At the predetermined height(s) (shown on the submittal drawing) for each row(s) of UV-C lamps, mark the vertical support. Using the “C” Clip bracket, bolt, and T-nuts provided in the RLM Loom Kit, screw the bracket onto vertical support (Image 7).
20. Using the fasteners from the Quick Slip Kit (Image 8) , secure the Quick Slip bracket to the vertical support (Image 10).

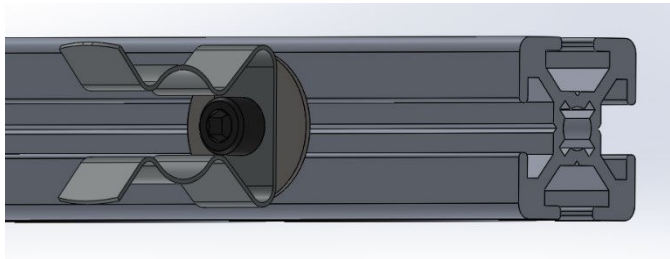


Image 7



Image 8

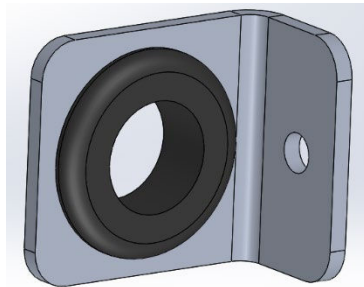


Image 9

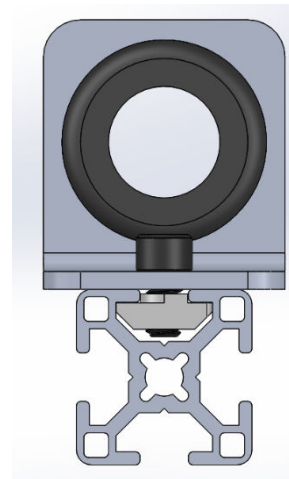


Image 10



RANCHO CUCAMONGTA, CA 91730
Uvresources.com

Phone: 877.884.4822

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