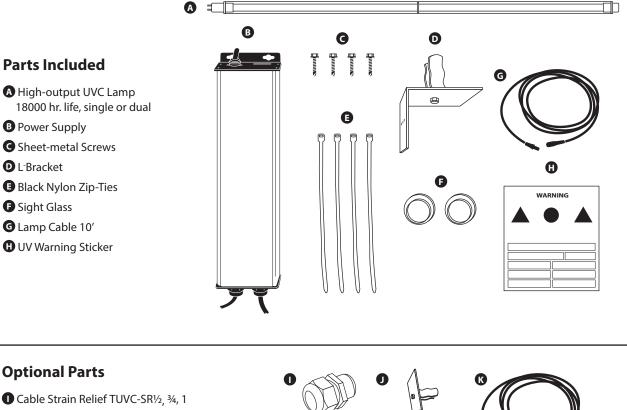
COMMERCIAL CORE SYSTEM FRESH-AIRE

The Fresh-Aire UV[®] Core System is the centerpiece of our commercial/ industrial germicidal UVC product line. The system can be used alone or with the addition of serveral optional kits for specific applications. Germicidal UVCI can be used for HVAC coil and duct-mounted airborne disinfection, odor control, agriculture and food safety. The Core System includes everything needed for basic germicidal UVC. Optional parts (see below) must be purchased separately.

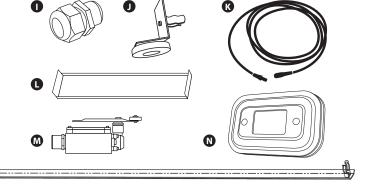


IMPORTANT! • Only qualified technicians should install this product* • Install in accordance with relevant building codes • Read instructions carefully including safety warnings

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty.



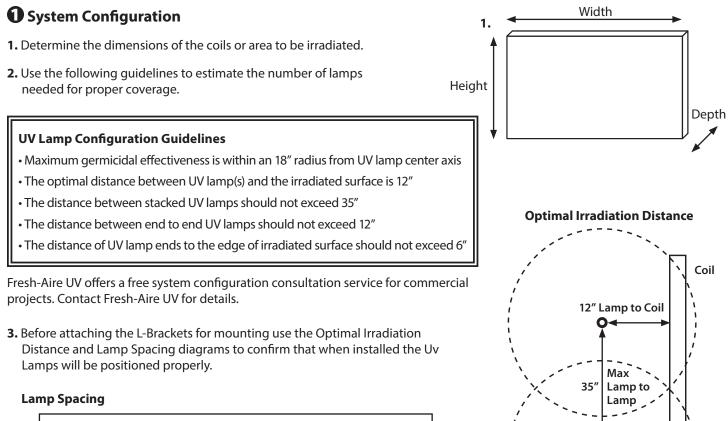
- Mounting Magnet TUVC-LBRKT-MG
- Cable Extensions TUVCBL5, 10
- 12" Stand-off TUVC-CMBRKT
- Door Interlock Switch TUVC-INTLCK
- NUV Shield TUV-SHIELD32, 46, 60
- View Port TUVC-VP-D

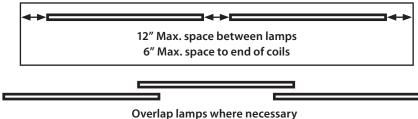


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Cooke Industries - Phone: +64 9 579 2185 Email: sales@cookeindustries.co.nz Web: www.cookeindustries.co.nz





Standard UV Spacing

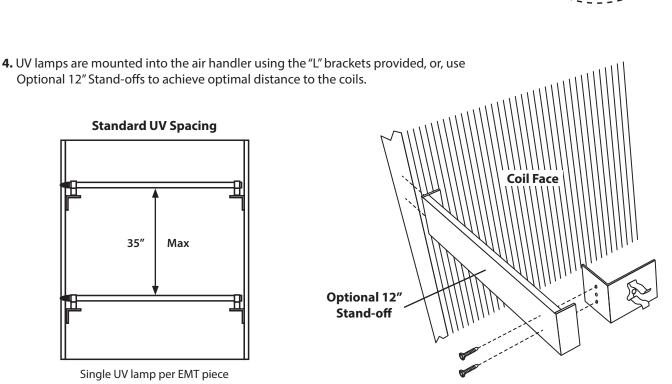
35″

Single UV lamp per EMT piece

TH

Max

Н



Use Optional 12" Stand-offs to change the distance to the coil

18" UV Effective Radius

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2

2 Install UV Lamps

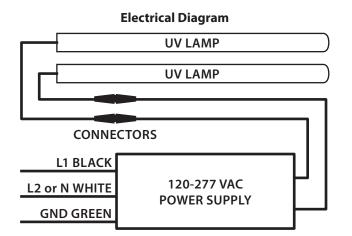
Snap UV Lamps into the L-Brackets. Be sure to clamp to the rubber lamp connector on one end and the ceramic lamp tip on the other end. DO NOT clamp onto the lamp glass. Use Black Nylon Zip-Ties to secure lamp cables.

Mount Power Supply(s)

Mount the power supply in a location (inside or outside of the HVAC system) that is convenient for access to the main power supply and for connection to the UV lamps. The power supply is weather resistant and is suitable for mounting inside or outside of the air handler. An Optional Power Supply Panel Mount (part # TUVC-P) is available for mounting two or more power supplies.

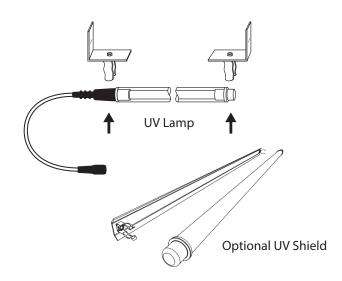
1. Use the supplied self-taping sheet metal screws to mount the power supply in place through the mounting holes on the sides of the base. It is recommended to use wire boxes, our Optional 3/4" or 1" Cable Strain Relief, or other sealing methods in order to pass the power cord and lamp cables into the interior of the air handler for connections.

2. IMPORTANT! Turn off main power before making electrical connections. Refer to the Electrical Diagram for proper connection of the power supply to the main power.

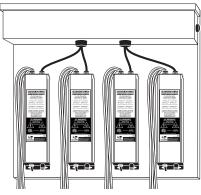


IMPORTANT! Connect in accordance with all state and local electrical and building codes. Proper voltage is automatically selected by the unit between 120–277 VAC Single Phase 50/60 hz. IMPORTANT! An external power suppressor is suggessted if power surges occur often.

- **3.** Use of Optional Door Interlock Switches is highly recommended to prevent accidental exposure to UV Light. Interlock switches are mounted on the access panels and doors so the UV lights turn off when the entryway is opened.
- **4.** Use the Optional UV Output Monitor, to monitor and alert maintenance personnel when UV lamps should be replaced.



Use Optional UV Shields when there are materials (such as older brittle insulation, filter media etc.) in the air handler which may be damaged by UVC exposure. Snap the shield onto the lamp ends, rotate into position.

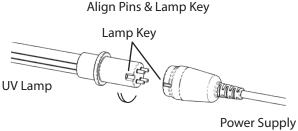


Optional Power Supply Panel Mount

O Connect Lamps & Cables

Arrange cables as needed for installation. If necessary use the Optional 3/4" or 1" Cable Strain Relief to pass cables through cabinets, air system walls, etc. Optional 5', 10', 20' Cable Extensions are available for longer runs. When UV lamps, power supplies, and cables are in place join the lamp and power supply cables by aligning the electrical pins and flanges on the rubber connectors and pushing them firmly together.

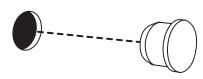
When adding lamp extensions, 20 ft. is the maximum distance from power supply to the lamp.



Push Firmly Together

Cable

3



6 Sight Glass Installation

- **1.** The sight glass allows safe viewing of the UV light system when in operation. Find a suitable location such as a door to the HVAC system for the sight glass.
- 2. Drill a 1" hole and press the base of the sight glass through it.

O Power-up System

Caution: UVC light that can cause **Serious Eye Burns** and **Temporary Blindness**, Ensure all access panels have been replaced and doors closed before powering-up the system.

Turn on the main power then switch on the UV light power supply(s). Use the sight glass to confirm that the UV Lamp(s) is operating.

O UV System Maintenance

Periodically wipe the UV lamps with a clean cloth or alcohol swab to remove any accumulated dust or dirt. This should be performed at least every 6-9 months or during routine maintenance intervals. Fouling could occur if lamps are installed under chilled water lines. Wipe clean or install optional shield.

OUV Lamp Replacement

Fresh-Aire UV[®] lamps are rated for two years (18000 hrs.) germicidal effectiveness. Lamps will continue to glow after 18000 hrs. but their germ-killing effectiveness diminishes with time so they must be replaced on schedule for the system to function properly. **Contact your local dealer for replacement lamps.**

Part# TUVCL-232HO	32", High-output, 18000 hrs.
Part# TUVCL-246HO	46", High-output, 18000 hrs.
Part# TUVCL-260HO	60", High-output, 18000 hrs.

Important! Use only Fresh-Aire UV[®] replacement lamps. Use of replacement lamps from other manufacturers voids the warranty.

OTrouble Shooting

Problem	Solution
UV Lamp(s) Not Lighting	 Check that power is applied. Check that the unit is turned ON. Ensure the remote lamp cables are properly connected. Check the fuse. Replace only with same size and type. Reset power switch on power supply (off then on). Install New UV Lamp(s). Consult Factory.
UV Lamp(s) Flickering	 UV Lamp(s) have reached end of effective service life. Install new lamp(s) of same type. If unit is new, check remote cables to ensure they are properly connected. Reset power switch on power supply (off then on). If new lamps still flicker, consult factory.
UV Lamps Have burned Out Prematurely	1. Consult Factory.
Power Supply Will Not Light UV Lamps even after new lamps are installed	1. Consult Factory. 2. External power suppressor may be needed if power surges occur.

(4)

Manufacturer's Warranty:

This warranty supersedes and replaces any warranty statements orally made by the Sales Person, Distributor or Dealer or contained in the written instructions or other Brochures or informational documents in relation to this product. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

What Does This Warranty Cover? This lifetime limited manufacturer warranty covers any defects or malfunctions in material and workmanship under the normal use and service when operated and maintained in strict accordance with manufacturer's instructions for the Lifetime of the equipment.

How Long Does The Coverage Last? 1) Fresh-Aire UV Power Supply: For as long as you own the real property where the product is installed. 2) TUVCL-1XX Series Ultraviolet Lamp is warranted for germicidal output for one-year from the date of installation. 3) TUVCL-2XX Series Ultraviolet Lamp is warranted for germicidal output for two (2) years from the date of installation. This warranty is not transferable. What Will Triatomic Environmental, Inc. Do? Triatomic Environmental, Inc. will replace any defective or malfunctioning part at no charge. You must pay any labor charges and shipping charges of defective

what will Iriatomic Environmental, Inc. Do? Iriatomic Environmental, Inc. will replace any defective or maitunctioning part at no charge. You must pay any labor charges and shipping charges of defective product to our warranty department. What Does This Warranty Not Cover? THIS PRODUCT IS NOT INTENDED TO BE PURCHASED AND INSTALLED BY UNLICENSED HVAC OR ELECTRICAL CONTRACTORS. This warranty does not cover products or parts

What Does This Warranty Not Cover? THIS PRODUCT IS NOT INTENDED TO BE PURCHASED AND INSTALLED BY UNLICENSED HVAC OR ELECTRICAL CONTRACTORS. This warranty does not cover products or parts purchased from any source other than licensed HVAC or electrical contractors. This warranty does not cover parts installed by unlicensed HVAC or electrical contractors. This warranty does not cover parts damaged as a result of misuse, abuse, or any use other than its intended use, accident, acts of god, neglect, or from improper operation, maintenance, installation, modification or adjustments. Triatomic Environmental, Inc. shall have no responsibility for charges incurred by the customer for installation or removal of warranted items.

This warranty does not cover parts or equipment used with the Fresh-Aire system that are not manufactured by Triatomic Environmental, Inc.

**This warranty shall be void if UV lamps from manufacturer's other than Triatomic Environmental, Inc. are used with this equipment.

Consequential and incidental damages are not recoverable under this warranty. Manufacturer assumes no liability for any harm, which may occur as a result of the use of the equipment herein and shall not be liable for consequential or any other damages whether or not caused by manufacturer's negligence or resulting from any express or implied warranty or breach thereof. Consequential damages for the purpose of this warranty shall include, but not be limited to, loss of use, income or profit, or loss of or damages to property or injury or death to persons or animals occasioned by or arising out of operation, use, the operation, installation, repair or replacement of the equipment or otherwise. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

There are no Warranties which extend beyond the description of the face hereof.

How Do You Get Service? In order to be eligible for service under this warranty you MUST return the warranty registration card or register online at www.freshaireuv.com. If something is wrong with your product, call your installing contractor to receive a Return Merchandise Authorization (RMA) and instructions for returning the product to a licensed distributor in your area or the manufacturer.

Once the product is returned, we will inspect your product and contact you within 10 business days of our receipt of the product to give the results of our inspection. If we determine that the product is covered under this warranty, we will ship to you at no additional cost a replacement part. Replacement parts may be refurbished. If we determine that the product is not covered under this warranty, or that this warranty is void, the product will be returned to you COD. There is no charge for inspection.

How Does State Law Apply? This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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