

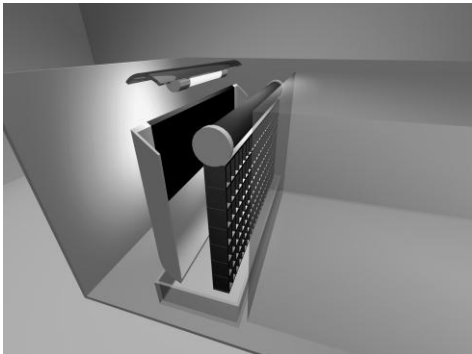


Tools Required:

1. Scissors
2. Phillips Screwdriver
3. Drill

INSTALLATION AND MAINTENANCE INSTRUCTIONS

The Fresh-Aire ICE-UV system is designed such that the UV lamp can be mounted in the ice producing section on the ice machine and is connected to the main power feed in the compressor section. The UV light system is designed to reduce biological contaminants such as mold, bacteria and slime, to enhance efficiency, and works as a preventive maintenance device.

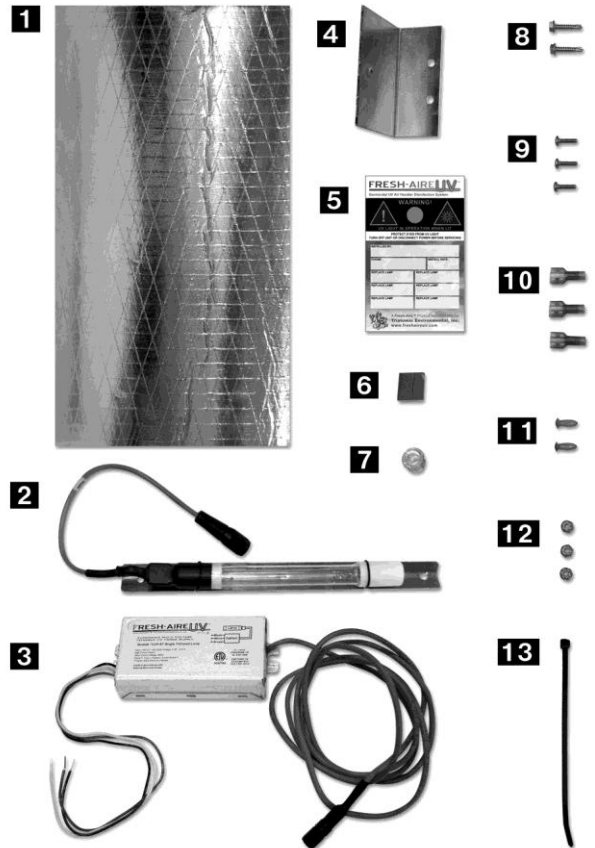


ICE-UV Irradiating interior of ice machine

SAFETY PRECAUTIONS:

- It is recommended that a trained technician install and maintain this unit.
- To prevent electrical shock – **ALWAYS DISCONNECT POWER BEFORE SERVICING.**
- **THIS PRODUCT EMITS ULTRAVIOLET RADIATION WHICH CAN CAUSE SERIOUS EYE INJURY. NEVER LOOK AT THE UV LIGHT, TURN OFF THE POWER TO THE UV UNIT BEFORE SERVICING.**
- Choose a mounting location that prevents ultraviolet light exposure directly onto plastic materials and wiring that have unknown resistance to ultraviolet light, otherwise use the supplied UV blocking tape to cover.

FRESH-AIRE ICE UV PARTS LIST:



1. Black Vinyl or Reflective Tape (to protect plastics)
2. Teflon Safety Coated UV Lamp and Shield
3. 120-277 VAC UV Power Supply
4. Stainless Mounting Bracket
5. UV Warning Sticker
6. Adhesive Pad
7. Sight Glass
8. Self Tapping Screws (2)
9. Machine Screws (3)
10. Electrical Connectors (3)
11. Plastic rivets (2)
12. Lock Nuts (3)
13. Cable Tie

INSTALLATION INSTRUCTIONS:

Mounting the UV Lamp(s)

1) Choose a suitable location inside the ice production compartment to mount the UV Lamp. The ideal location is to position the UV lamp such that the UV light can expose the ice production tray, sump basin or other areas within the ice compartment that are susceptible to mold and slime growth. The following are suggested installation locations.

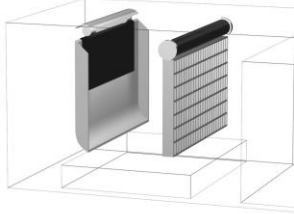


Figure 1

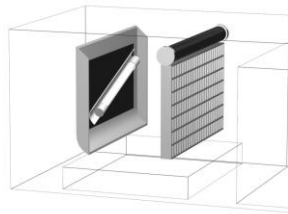


Figure 2

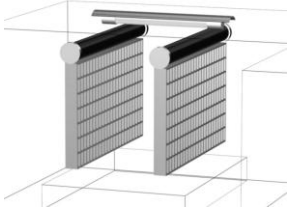


Figure 3

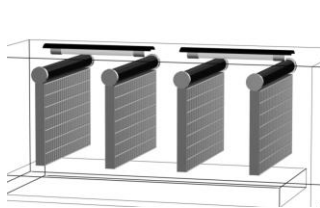


Figure 4

2) Use the supplied UV blocking tape to cover plastic materials that can be destroyed by UV. Cut the material and cover all susceptible materials in direct line of sight of the UV lamp (Figure 5 and 6).

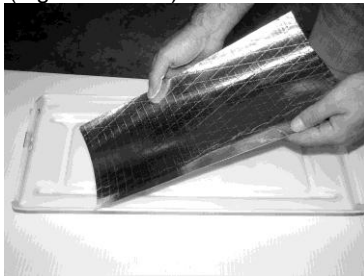


Figure 5



Figure 6

3) Remove the UV Lamp and shield from the shipping container. Mount the shield onto a surface in the area desired ensuring the lamp is facing towards the surfaces desired to be maintained. Use either the plastic rivets or the machine screws and locking nuts to mount the shield (Figure 7 and 8).



Figure 7 (Ice Machine Lid)



Figure 8 (Ice Curtain)

Note: Although the glass of the UV Lamp is safety coated with Teflon, it is very fragile, be careful not to bang it against anything during installation as it may break. Use a clean cloth and wipe any fingerprints or dirt from the UV lamps from the installation process.

MOUNTING THE POWER SUPPLY

1) Locate the main power supply for the ice machine (Figure 9).



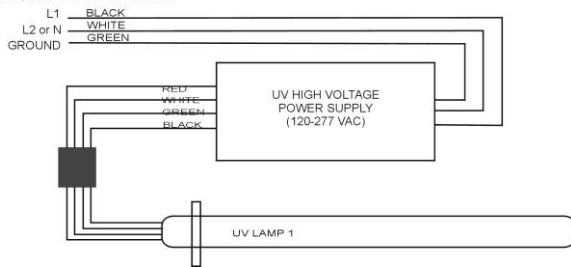
Figure 9

ENSURE THE MAIN POWER IS TURNED OFF BEFORE PROCEEDING. Refer to the electrical diagram for proper connection of the power supply. **CONNECT IN ACCORDANCE WITH ALL STATE AND LOCAL ELECTRICAL AND BUILDING CODES.**

Power Supply Electrical Diagram:

SINGLE LAMP POWER SUPPLY MODEL TUVP-277 FOR 120-277 VAC OPERATION

NOTE: CONNECT TO 120 - 277 VAC
50 / 60 HZ, SINGLE PHASE POWER SOURCE



- 2) Use the supplied spade connectors and self-taping sheet metal screws to mount the power supply in place.

Final Connections and Installation Wrap-Up

- 1) Connect the waterproof remote cable male plugs on the power supply to the waterproof lamp female receptacles. The connectors have alignment keys and need to be properly seated during connection of the UV lamp will not light. Dress any excess remote cable into the electrical compartment and secure. Refer to the diagram below for reference:

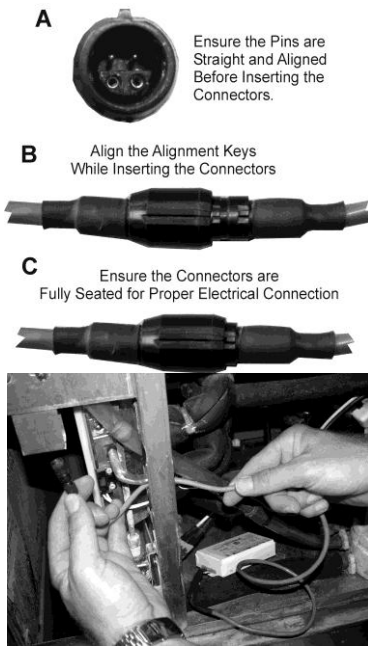


Figure 10



Figure 11

- 1) Replace all access panels to the ice machine.
Caution: This product emits Ultraviolet light that can cause Serious Eye Burns and Temporary Blindness,

Ensure all access panels have been replaced before proceeding to the next step!!!! (Optional panel interlocking safety switches are available from Triatomic to prevent accidental exposure.)

- 2) Re-apply power to the ice machine.
- 3) Check that the lamp has lighted, typically within 5 seconds of applying power.

MAINTENANCE:

Periodic 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 once per year or during routine maintenance intervals.

UV Lamp Replacement Intervals

Replace the lamps after the lamp has reached the end of it's expected service life regardless of whether the lamp is still lit or not. This is because the UV lamps lose their germicidal effectiveness as the gas required to create the UV light is expended over time. **This procedure should only be attempted by a trained service technician. Ensure all power is disconnected and the UV lamp is OFF before opening any of the service panels to the system. The UV Lamps contain Mercury – Dispose of properly in accordance with all federal, state and local laws (Refer to www.lamprecycle.org)**

Please contact your local dealer for replacement lamps.

Trouble Shooting Guide

Problem	Solution
UV Lamp Not Lighting	<ol style="list-style-type: none"> 1. Check that power is applied. 2. Ensure the remote lamp cables are properly connected. 3. Consult Factory.
UV Lamp(s) Flickering	<ol style="list-style-type: none"> 1. UV Lamp(s) have reached end of effective service life. Install new lamp(s) of same type. 2. If unit is new, check remote cables to ensure they are properly connected. 3. If new lamps still flicker, consult factory.
UV Lamps Have burned Out Prematurely	<ol style="list-style-type: none"> 1. Consult Factory.
Power Supply Will Not Light UV Lamps even after new lamps are installed	<ol style="list-style-type: none"> 1. Consult Factory.

Lifetime Power Supply 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.

Manufacturer warrants the **ICE-UV** to be free from defects 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, with exception of the Ultraviolet Lamp, which is warranted for UV germicidal output only for the following: TUVL-ICE = two (2) years. **The UV lamp warranty does not cover cracked or broken lamps due to mishandling or improper application.**

Manufacturer's obligation under this warranty is being limited to repairing or replacing any part found to its satisfaction to be so defective. This warranty does not cover parts damaged resulting from misuse, abuse, or any other than its intended use, accident, 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 **ICE-UV** that are not made by Manufacturer, since these items are covered by warranties of the respective manufacturer. This warranty shall be void if UV lamps from manufacturers other than Triatomic Environmental, Inc. are used with this equipment.

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.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF

To obtain warranty service you should contact your local dealer or the part should be shipped at your cost to:

Triatomic Environmental, Inc.
1410 Park Lane S, Ste# 3
Jupiter, FL 33458
www.hvacuv.com info@hvacuv.com

Triatomic Environmental, Inc is the manufacturer of the Fresh-Aire UV, ICE-UV and Blue-Tube UV Brands.