



# ICEZONE

## Installation and Maintenance Guide for Follett Vision Dispensers

Dispenser Model: VU300B10RL



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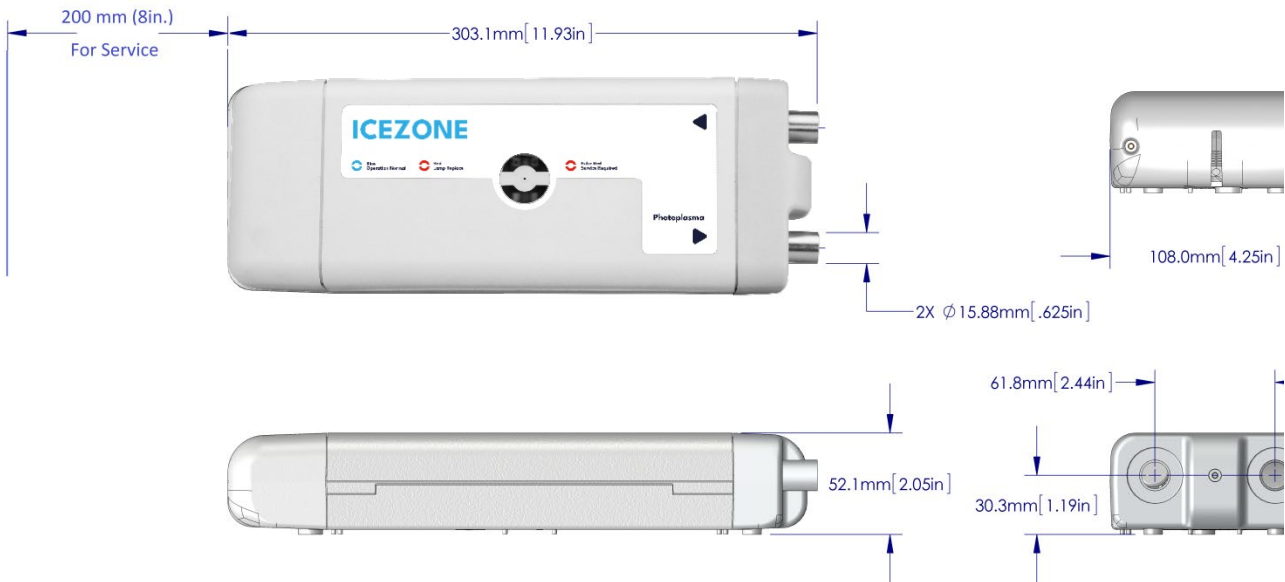
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## Specifications

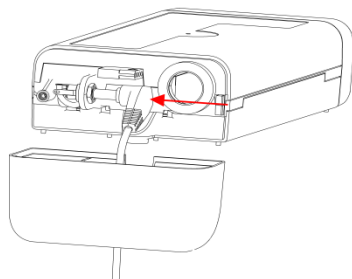
The Icezone is encased in an engineered plastic housing with dimensions of 303mm X 108mm X 52mm. For accessibility to the bulb connectors, the unit should be installed in an area with access to allow removal of the service cover. The lamp will require 200mm (8in.) clear space beyond the end of the service cover for removal.



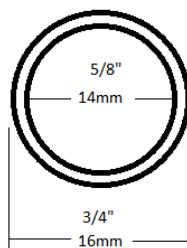
**Figure 7** – External envelope of the Icezone in mm [and inches]

### Figure 8

Icezone Notice the arrows indicating return and supply tubes. Also depicted are the 12V DC male connector assembly and the ultraviolet light bulb connector. When installing ensure that there is sufficient clearance to access the bulb connector, which will be required should the bulb need to be replaced.



The unit has two tubes extending from the front face: 1) the return intake; and 2) the supply outlet (see Figure 8).



**Figure 9.**

The intake and outlet tubes (see Figure 8) have an internal diameter of 14mm and an external diameter of 16mm. Tubing used to direct and collect photoplasma throughout the ice maker should have a minimum inside diameter of 14mm to allow unrestricted airflow.

## Before Installation

## Requirements

Icezone Closed Loop requires a 12VDC, 2.1A power supply for operation. This installation will use a wall adapter to convert the 115VAC to the 12VDC required for Icezone. Tubing, fittings, screws, rivets, brackets, clips and clamps required for installation must be NSF-grade materials and should be installed per NSF and UL specifications.

Requirements	
<b>Power Supply – Power Usage</b>	< 24 watts
<b>Input Voltage to Power Supply</b>	88 – 264 VAC , 50-60Hz
<b>Power Source (Shown at Right)</b>	Dedicated Power Supply with 12VDC output
<b>Installation Area</b>	16cm X 11.5cm X 6.8 cm
<b>Tubing</b>	5/8ID x 3/4" NSF Approved
<b>Fittings and Clamps</b>	5/8" NSF Approved
<b>Replacement Bulb</b>	IZ-X10: 10-08025 IZ-X20: 10-08050 IZ-X30: 10-08100



## Selecting Installation Area

This device may not be installed in the ice production area or ice bin, as those areas are classified as food zones by the Food and Drug Administration (FDA). This device may be mounted outside the ice machine and attached to the machine or an adjacent wall. The adequacy of the installation area should be assessed based on the available size, the access to a suitable power source, the availability of a proper mounting location to secure the device with rivets or screws, and the ease of access to change the ultraviolet light bulb as required. The optimal installation location depends on the make and model of the ice machine. **See the installation instructions below for the recommended position to install the Icezone on a Follett Vision Dispenser.**

## Safety Instructions



**WARNING:** These procedures should only be performed by a qualified electrician according to national and local electrical codes. Supply power should be turned off during installation or when replacing components or checking connections. Never perform maintenance or cleaning while fixture is energized.

Inspect the device for damage that may have occurred during transportation. If the unit has been damaged, do not connect it to the power supply or try to use it otherwise. In the event of damage, immediately contact Biozone Scientific at [info@Biozonescientific.com](mailto:info@Biozonescientific.com).

The installation may not be carried out in such a way that it damages electronic components, ice maker components or wiring. Furthermore, installation must not require any modification to or re-positioning of ice maker components. Before installation or maintaining, disconnect the ice maker from the power supply.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children are not allowed to use or play with this appliance and should be supervised to ensure this.

Use only spare parts approved by Biozone Scientific International.

## Included Parts List:

Item	QTY	Description
1	1	Icezone unit
2	3 ft	FDA approved 5/8"ID x 3/4"OD tubing
3	1 1/2 ft	FDA Approved 1" ID x 1 1/8" OD tubing
4	2	FDA approved elbow 5/8" fitting
5	2	FDA Approved 1" elbow fitting
6	1	FDA Approved 1"-5/8" Reducer
7	1	1 1/8" Tubing Clamp
8	1	12VDC 2.1A Wall Adapter
9	1	Mounting Bracket
10	1	Air Filter w/ ty-wraps
11	1	#6 x 1/2 self-drilling hex head sheet metal screw
12	1	Velcro Hook & Loop Pair



**UV WARNING – Eye damage may result from directly viewing the light produced by the lamp in this apparatus. Always turn off lamp before opening cover.**



**WARNING – High voltage inside.**  
Open Circuit Voltage and Voltage to Ground: 600V



**Dispose of this device or any related parts in accordance with all international, federal, state, and local regulations.**



**The bulb in this product contains mercury. Call or visit LampRecycle at +1-866-666-6859 or [www.lamprecycle.org](http://www.lamprecycle.org)**

## Installation Instructions

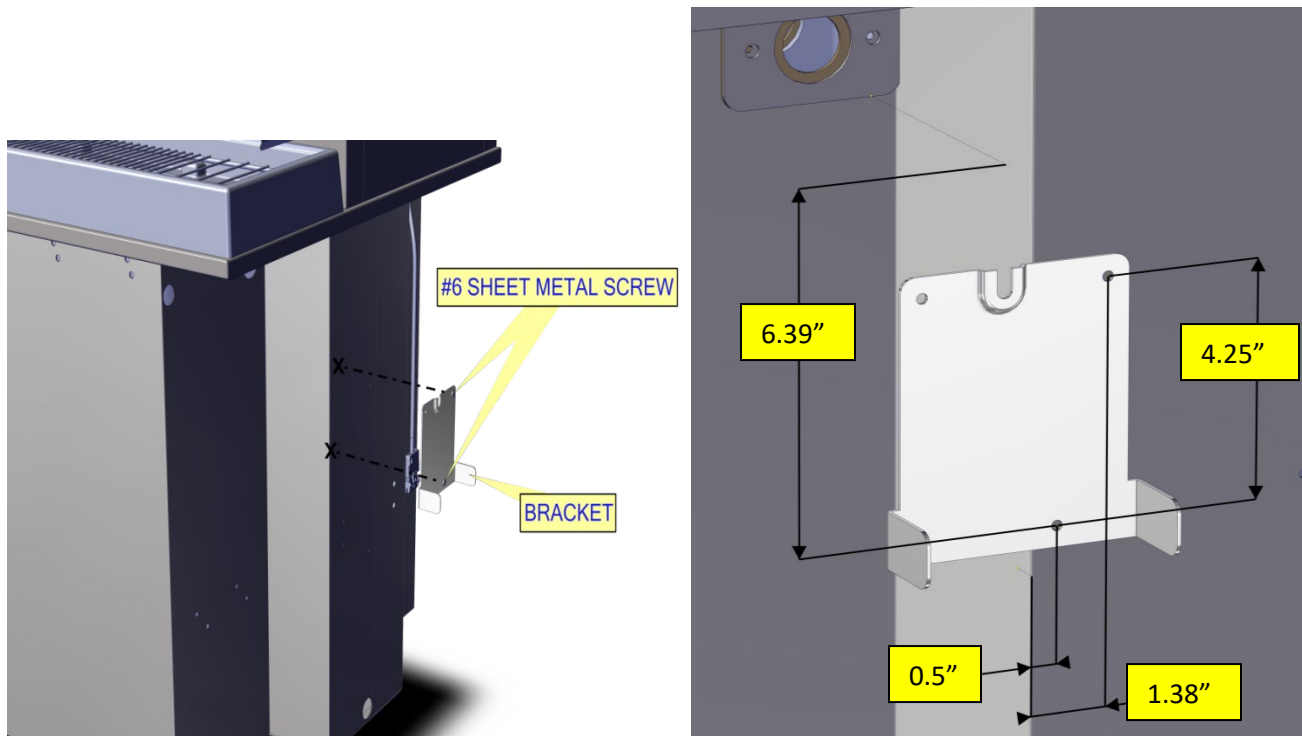
- 1) Before installation, disconnect the dispenser from the power supply and remove panels as needed. For sanitation the ice bin may need to be emptied or the ice covered to prevent installation debris from contaminating the ice.
- 2) Locate the position on the dispenser cabinet where the Icezone will be attached (see below).

For Vision Dispenser:



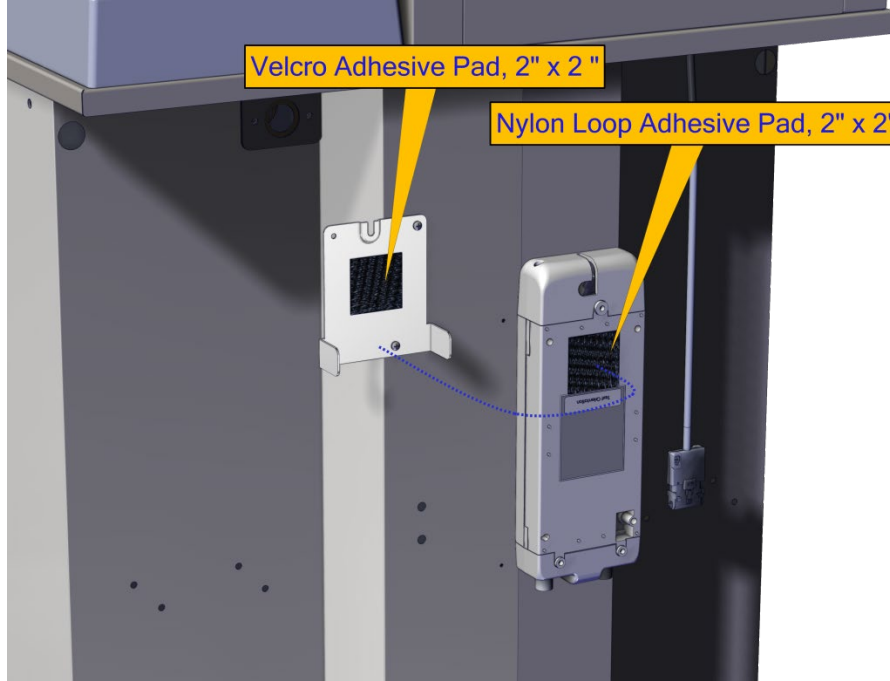
Locate the Icezone unit as shown on the Vision Dispenser cabinet.

- 3) After confirming the location of the Icezone by test fitting the unit and checking for clearance between Icezone and adjacent equipment, place the bracket in the location where the Icezone will be mounted.

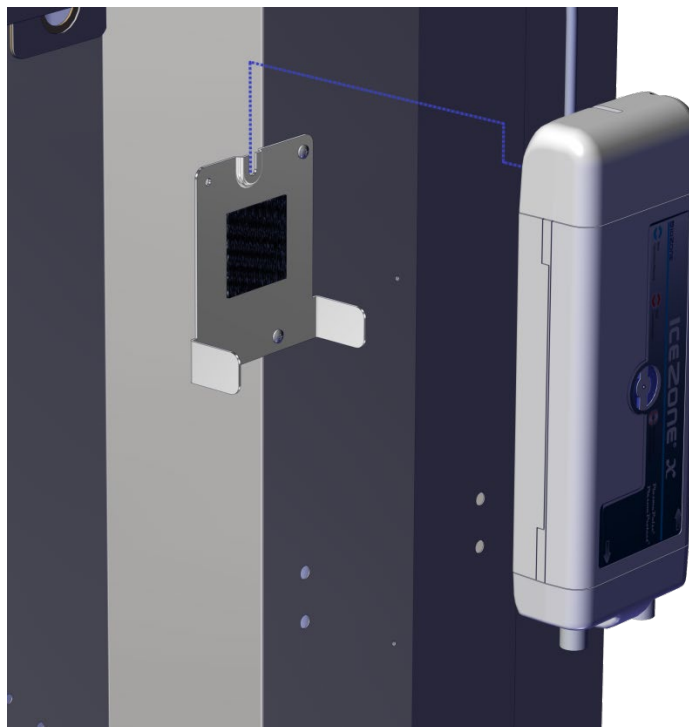


- 4) Install the bracket with the sheet metal screws provided. The slot is located at the top of the bracket when oriented correctly.

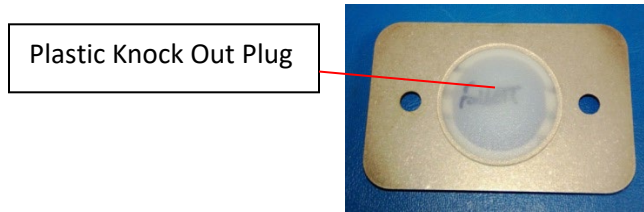
- 5) Apply the Velcro pads to the bracket and Icezone housing as shown below:



- 6) Place the IceZone –X on the bracket by inserting the mounting stud into the slot in the top of the bracket.

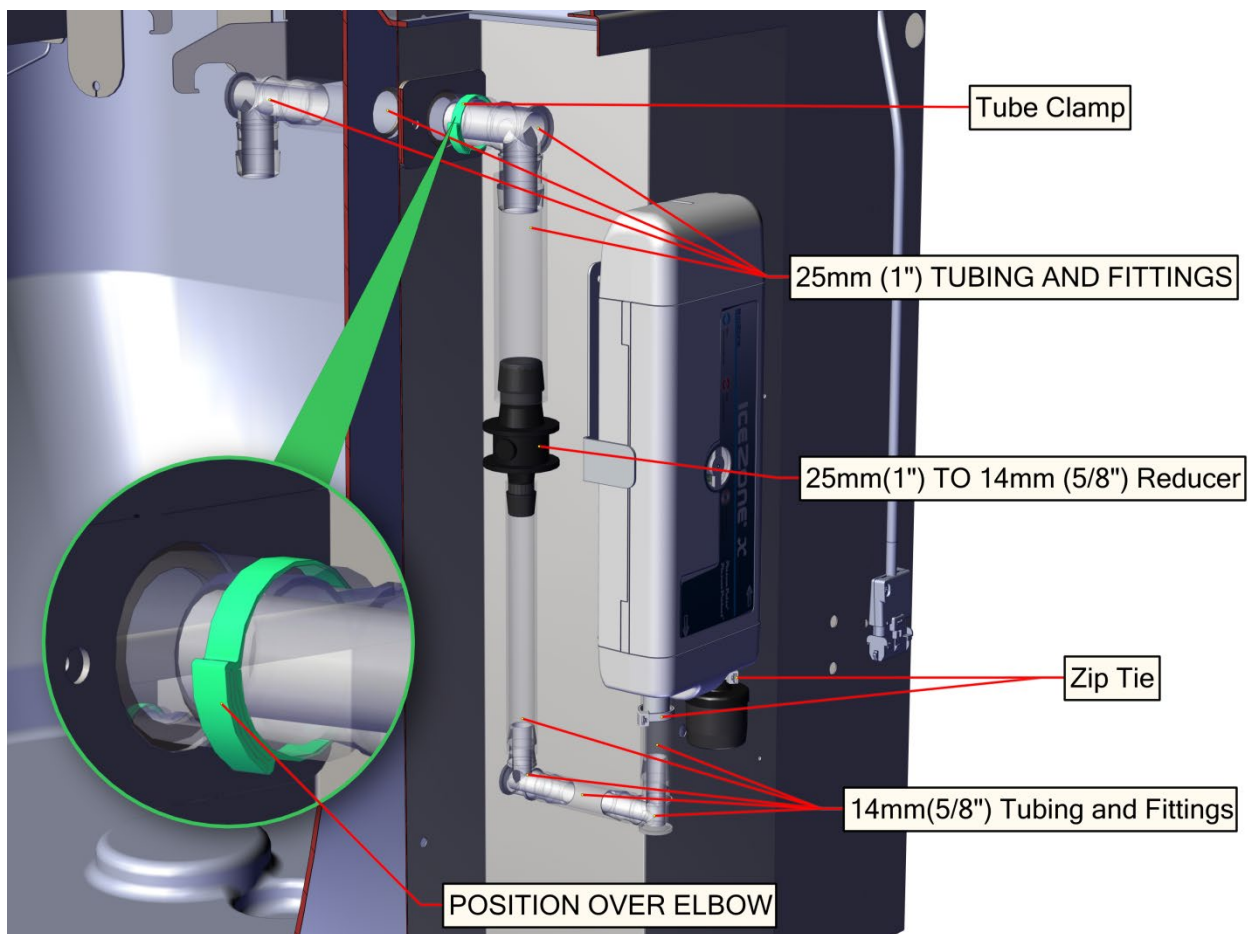


- 7) Remove the plastic knockout plug to open the port where the Icezone tubing will be inserted into the dispenser bin.

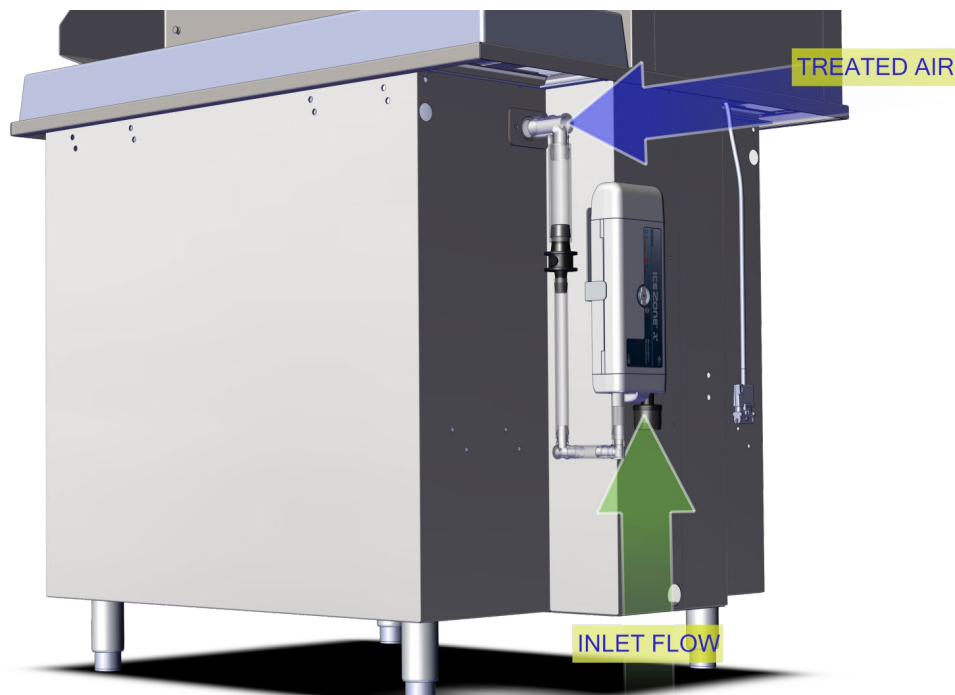


- 8) Install the tubing as shown in the illustration below. The 14mm (5/8") tubing and fittings are used on the Icezone supply port. The reducer is used to increase the tubing size to 25mm (1") ID tubing and the 25mm (1") tubing is inserted into the Vision Dispenser port and should seal with the rubber seal provided on the dispenser.

*Installers Tip: The plastic hose may be easier to slide over the fittings if the hose is warmed in water prior to installation. Cut the hose to length and place in a 140F water bath prior to final assembly.*



- 9) Place the air filter onto the return tube of the Icezone unit. Gently tighten the included ty-wraps to secure the filter on the return tube and also apply a ty-wrap to secure the tubing on the supply port.



*See Maintenance section for replacement filter ordering information. Actual air filter may not appear as shown in the picture.*

- 10) Test the installation by plugging the Icezone power supply into the wall outlet. The Icezone unit should have a quiet fan sound and a blue glow at the outlet port when operating properly.
- 11) Clean the installation debris from the cabinet area and ice bin area and replace all the covers on the dispenser. Re-connect the power to the dispenser.

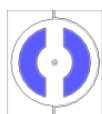
## Troubleshooting Installation Problems

Every Icezone unit has undergone a strict quality control inspection. However, should the unit malfunction or should you have any questions regarding the installation process please contact Biozone at [info@bsg-uv.com](mailto:info@bsg-uv.com)

In the event that the following instructions do not solve the problem, contact your supplier.

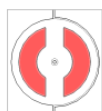
Trouble	Check
<b>Fan works Status Light – Steady Red</b>	Open the IceZone Service Cover and check that the lamp connectors are properly installed. Replace lamp.
<b>Fan works Status Light – Flashing Red</b>	Lamp Time Expired – Replace Lamp to Maintain Effective Ice Machine Cleaning. Reset Lamp Timer After Installing New Lamp
<b>Fan not working Status Light not lit</b>	Power supply plugged in. Power outlet is working. Power cord is undamaged.
<b>Weak airflow</b>	Clean Lamp Blocked Hose or Fittings

## Status indicator lights indicate:



**NORMAL**

Icezone is operating normally



**LAMP REPLACE  
(RED)**

A Steady Red LED indicates the lamp has reached its useful life and should be replaced to maintain the performance of the Icezone.



**SERVICE  
(FLASHING)**

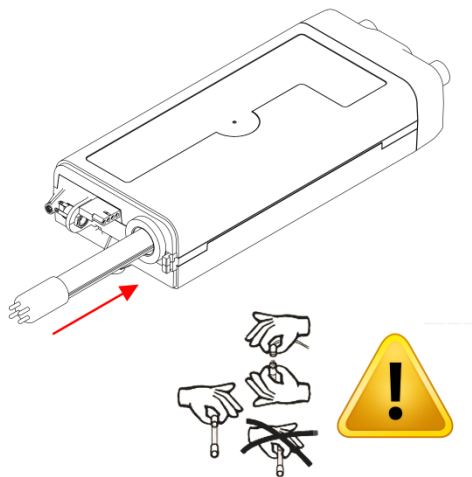
A Flashing Red LED indicates the Icezone is not operating correctly and should be serviced immediately. Please return to Biozone Scientific for service.

## Maintenance Instructions

If the device is located in a dusty or smoke-filled area, it is recommended that the bulb and air filter be cleaned every three months, as this will significantly extend the life of the unit. At a minimum, the bulb must be changed every twelve months in order to ensure maximum functionality and efficiency. The Air Filter should also be changed annually to insure maximum air flow is maintained.

## Lamp Replacement Instructions

1. Disconnect the power supply to the ice machine and Icezone
2. Access the device by removing the necessary covers and access panels on the ice machine, as instructed in ice machine owner's manual (not supplied)
3. Remove the IceZone Service Cover to access the lamp connector and lamp.
4. Disconnect the lampholder from the bulb by gripping the plastic lampholder body and pulling away from the bulb. **Do not grip the lampholder by the connecting wires under any circumstances as this is a high voltage hazard.** The 4 pins on the "pin-end" of the bulb will be exposed
5. Pull the lamp from the "pin-end."
6. Ensure that the bulb has cooled down. **When handling the bulb, avoid touching the glass element with exposed fingers as oil and residues from skin can adversely affect the performance of the bulb**
  - a. Cleaning the bulb: Clean the bulb with a soft cloth and an appropriate cleansing solvent compatible with quartz glass (such as rubbing alcohol). Cleansing wipes may also be used; Reinsert the bulb
  - b. Changing the bulb: Insert a new bulb (see technical specifications in this manual for correct bulb type). Use only a new Biozone Scientific International bulb (using other bulb will void the warranty)
7. Replace the bulb by inserting the "flat-end" into the appropriate end cap.
8. Reconnect the lampholder to the "pin-end" of the bulb
9. Replace the IceZone Service Cover
10. Reconnect the power supply to the device
11. Replace any access panel removed on the ice machine
12. Reconnect the power supply to the ice machine and Icezone
13. Dispose of any old bulbs in accordance with all regulations pertaining to hazardous waste disposal (these bulbs contain small traces of mercury)



## Disposal and Recycling

### Packaging

- Packing materials can be recycled. In the interest of environmental protection, dispose of them properly.

### Photoplasma Lamp

- Lamps contain small traces of mercury. Old, defective or broken lamps must be disposed of in accordance with laws related to the disposal of hazardous wastes.



## Certifications

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference; and
- This device must accept any interference received, including interference that may cause undesired operation.



The health aspects associated with the use of this product and its ability to aid in disinfection of environment air have not been investigated by UL.