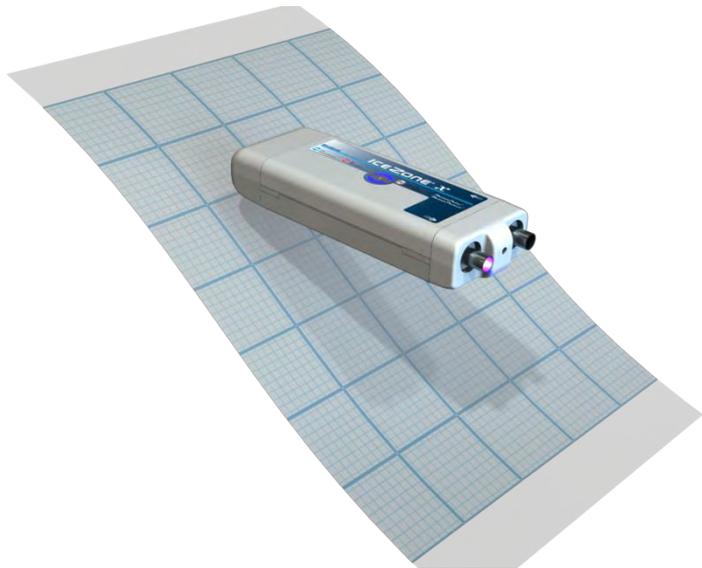


# Installation for Hoshizaki Cuber Ice Machines Standard Top-Mount Installation



This module will show the steps to install IceZone® X on Hoshizaki single evaporator cuber Ice Machines. Please watch the entire video prior to installation.

**Caution: Installation should be done by a qualified technician using appropriate safety equipment and procedures.**

## Pre-Installation Requirements



## Clean and Sanitize Ice Machine Prior to Installation

Follow the manufacturer's guidelines for cleaning the ice machine thoroughly.



Before Installing IceZone<sup>®</sup> X, clean the interior of the ice machine thoroughly according to the manufacturer's guidelines. All surfaces should be free of slime and scale before starting the installation.

## Recommended Tools

Hand Drill

Phillips Bit Driver

7/8" Step Drill Bit

1/4" Nut Driver

Phillips Screwdriver

4ft Ladder

Safety Goggles

Hose Cutter or Utility Knife

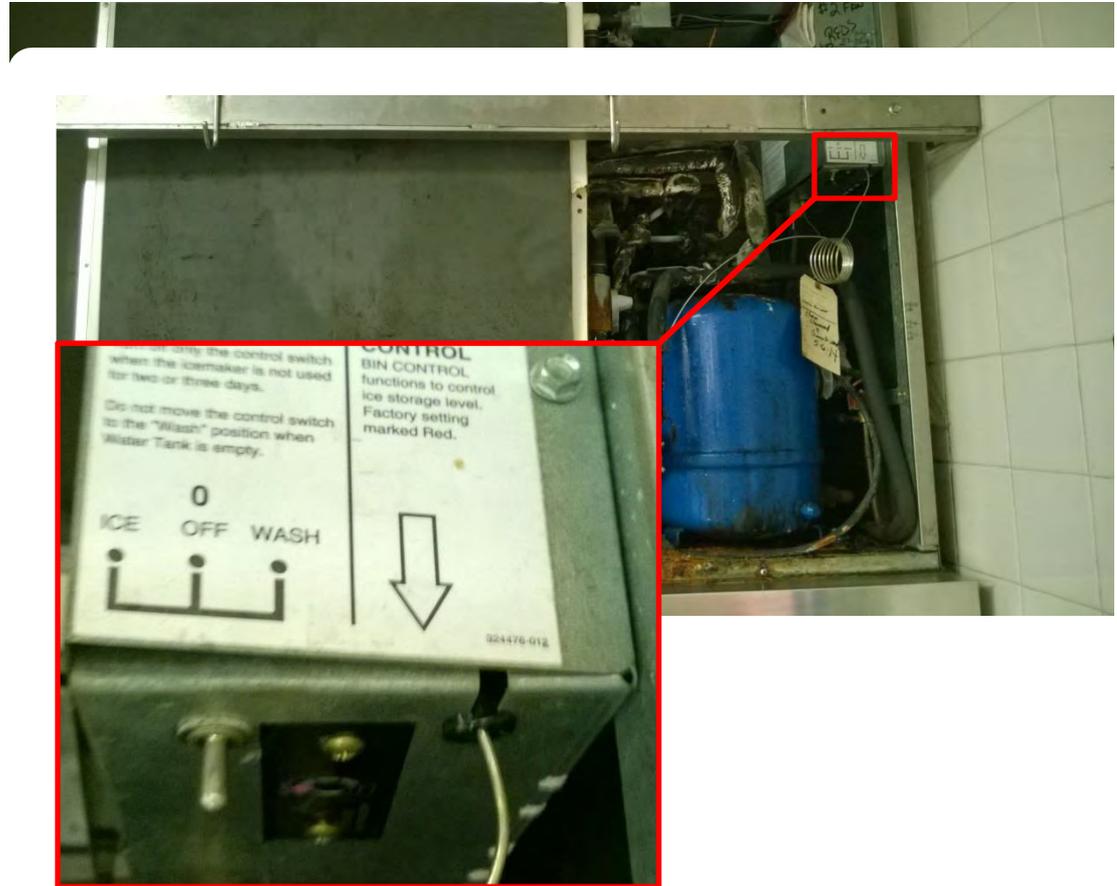
1 1/4" Crescent Wrench

Marker to mark hole locations

File or knife to de-burr holes



Before working on the ice machine, the ice in the bin must be removed. Turn the ice machine power switch to the “off” position and disconnect power from the ice machine following facility appropriate lock-out / tag-out procedures.



## For Single Machine Installations

Mark the location for the IceZone<sup>®</sup> supply fitting. This is the fitting where the plasma will enter the ice machine. This should be between the evaporators and should deliver plasma near the top of the ice production volume.

The first step is to locate the hole on the stainless steel cover. *The insulated cover can be removed to make this location easier to find.*



Locate Here



## For Single Machine Installations

Transfer the location for the IceZone<sup>®</sup> supply fitting to the insulated top cover by following these steps:

- 1) Place the stainless steel cover on top of the ice machine so it is seated in the normal operating position.
- 2) Mark the hole location in the insulated cover by marking with a pen though the hole in the stainless steel cover.



**For Single Machine Installations**

Drill the hole for the IceZone<sup>®</sup> supply fitting in the insulated top cover at the mark transferred from the stainless steel cover.



**For Single Machine Installations**

Assemble the supply fitting as shown.

This includes a double ended barb fitting, low profile nut and white rubber washer.



**For Single Machine Installations**

Install the supply fitting as shown.

This includes a second low profile nut and white rubber washer.

There should be no exposed threads on the interior surface of the lid per NSF guidelines.



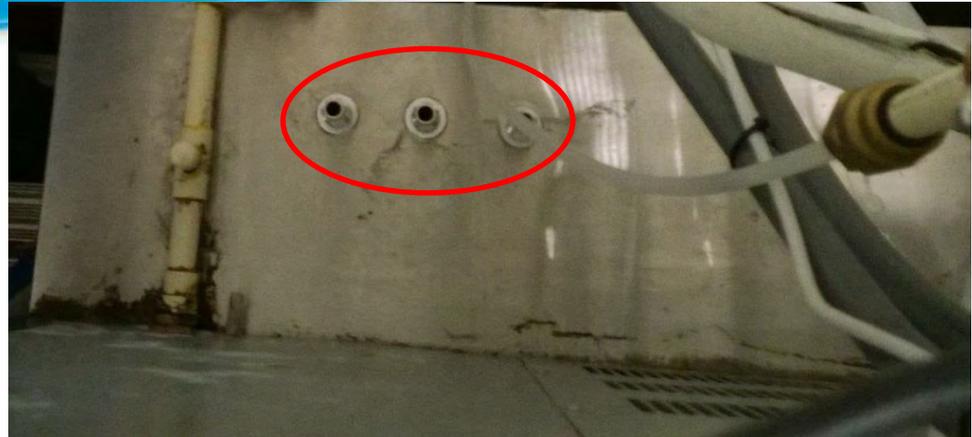
**For Single Machine Installations**

Install the “T” fitting on the supply fitting as shown.



Mark the location for the IceZone<sup>®</sup> return fitting. This is the fitting where the plasma will return to the IceZone<sup>®</sup>. This is typical located on the top of the ice bin (*for multiple unit installations*) or in the bottom of the ice machine (*for single unit installations*).

IceZone return fittings for multiple ice machines / IceZones.

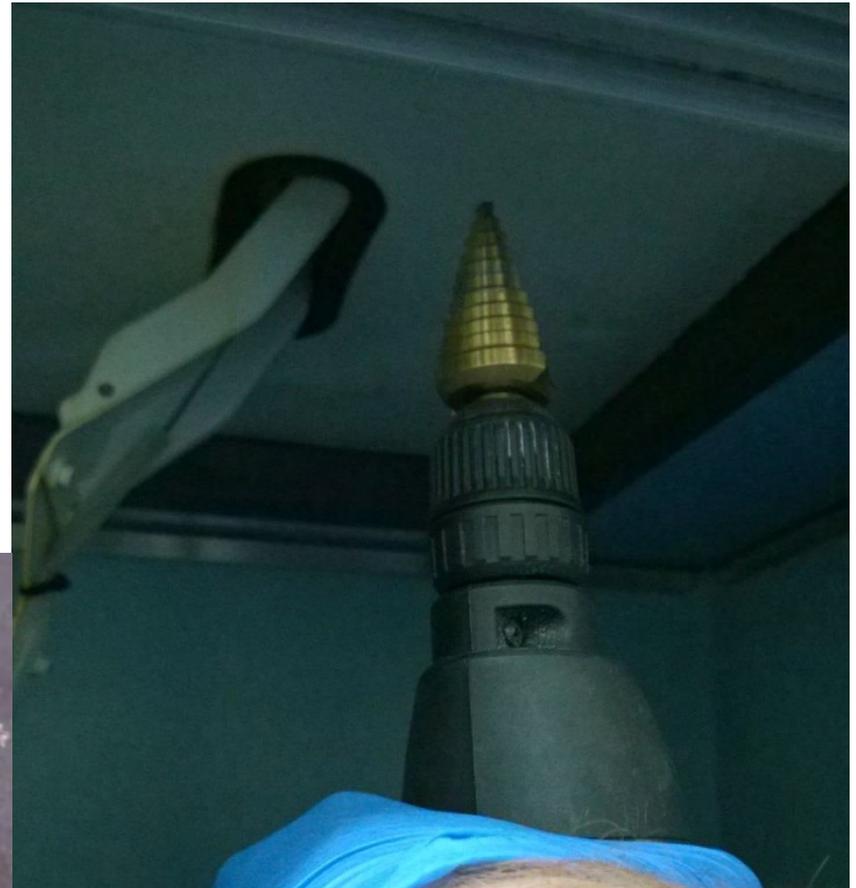
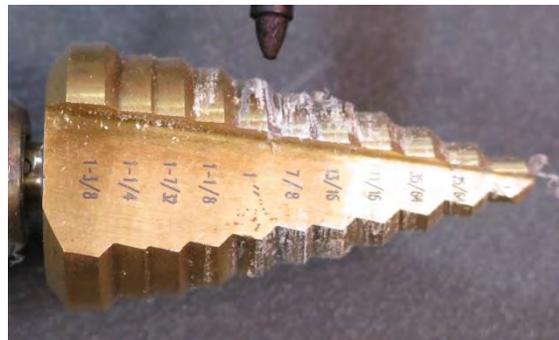


IceZone return fitting for single ice machine / IceZone.



## For Single Machine Installations

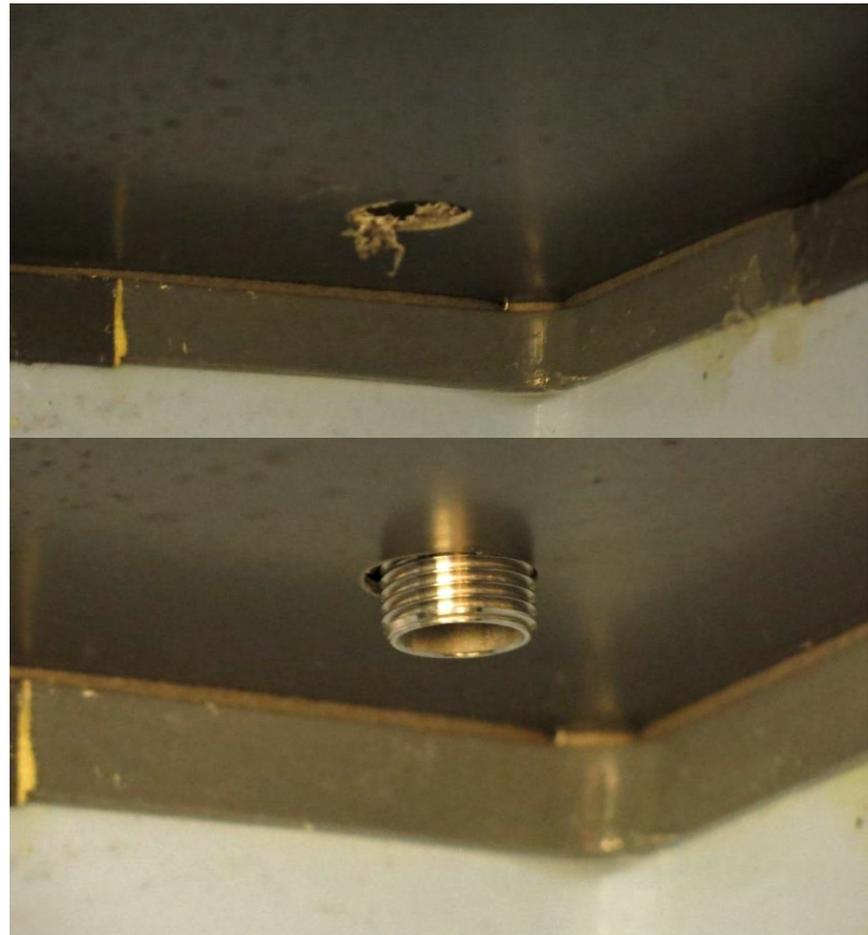
Drill the hole(s) as marked.  
The final hole diameter  
should be 1.0" for each  
fitting.



**For Single Machine Installations**

Clean the burrs from the hole edges and prepare to install the fittings.

This picture shows the de-burred hole with fitting inserted. (the fitting installation will be shown in the coming steps).



**For Single Machine Installations**

Assemble the return fitting as shown.

This includes a single ended barb fitting, low profile nut and white rubber washer.



**For Single Machine Installations**

Install the return fitting as shown.

This includes a second low profile nut and white rubber washer.

There should be no exposed threads on the interior surface of the lid per NSF guidelines.



## For Single Machine Installations

In single machine installations the return tubing will run from the bottom of the machine through the stainless steel lid and to the IceZone.

A grommet is installed in the cover to allow the tubing to pass through.



## For Single Machine Installations

For single machine installations, the top side of the lid should be completed as shown.

Ensure the fitting nuts are tight and prepare to mount the IceZone<sup>®</sup> unit.



Remove the service cover from the IceZone<sup>®</sup> unit.

This provides access to the lamp, power input and mounting boss.

As the screw is removed from the cover, be sure to keep it with the cover so it is available for re-assembly.

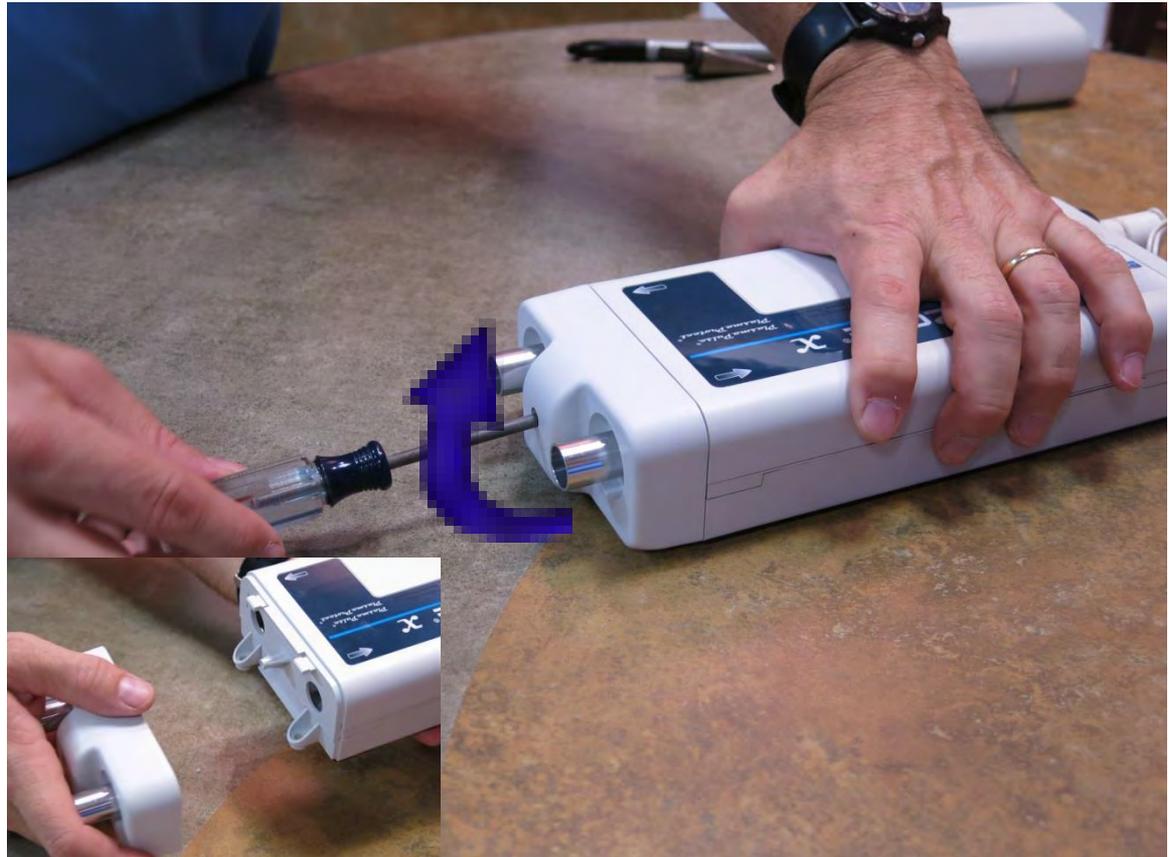


Remove the Input/Output cover from the IceZone<sup>®</sup> unit.

This provides access to additional mounting bosses.

As the screw is removed from the cover, be sure to keep it with the cover so it is available for re-assembly.

The cover requires a firm pull while rotating towards the top for removal



## For Single Machine Installations

Place the IceZone® Unit on the lid and layout the routing of the supply and return tubing.

The IceZone® Unit should be placed in the back right corner of the cover (*looking at the front of the ice machine*)

Place the 90 degree hose Barbs in place to visualize the routing. Observe the flow direction arrows on the IceZone® Unit.



Mark the holes to mount the IceZone® Unit on the lid.

Use a pen to locate the three mounting holes.



Drill the holes to mount  
the IceZone<sup>®</sup> Unit on the  
lid.

Drill three 1/8" holes.



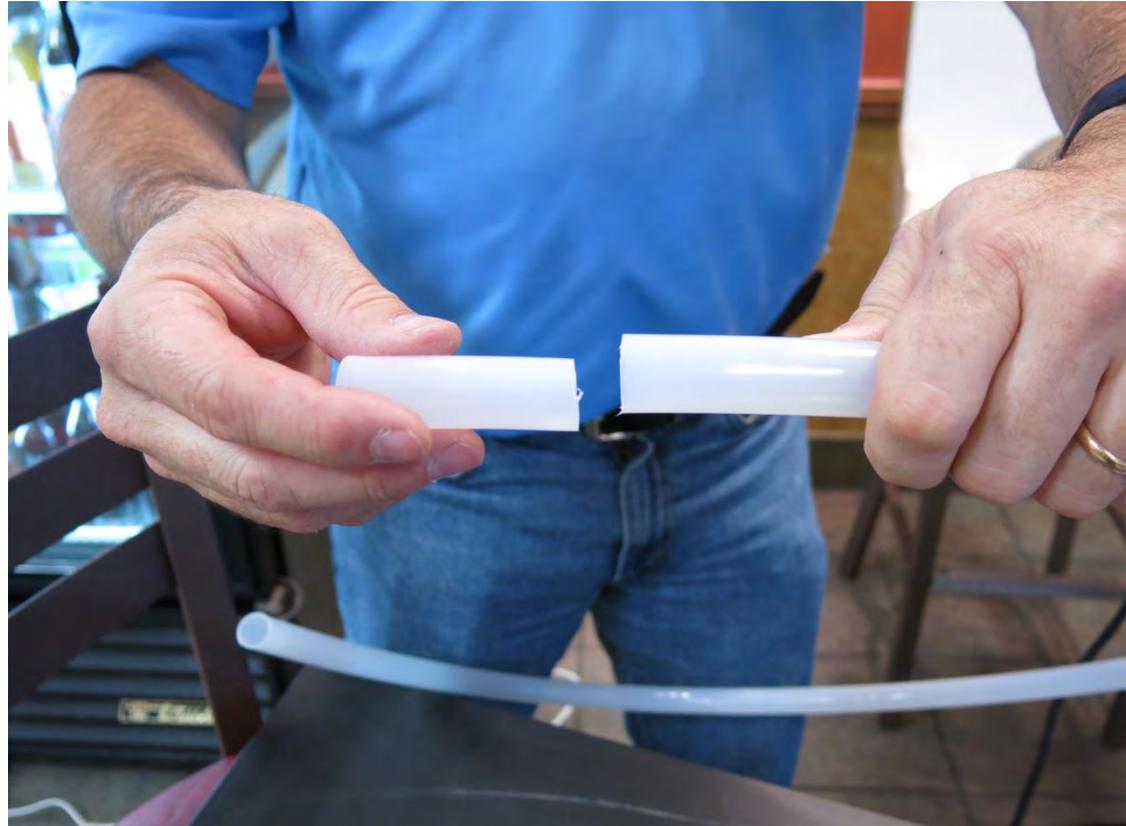
Place the mounting rivets or self drilling screws into the mounting holes.



Re-attach the  
Input/Output cover and  
secure with the original  
screw.



Cut two 2.5 inch pieces of tubing to connect the supply and return fittings to the 90 degree hose barbs.



## For Single Machine Installations

Assemble the supply and return fittings to the 90 degree hose barbs using the 2.5 inch pieces of tubing.

*Installer's Tip:* Heating the tubing in hot water eases the installation of the tubing onto the fittings.



## For Single Machine Installations

Cut and assemble the remaining supply and return tubing and fittings.

Place the handy clamps (black) on the tubing which is placed over the ports on the IceZone<sup>®</sup> Unit.

*Installer's Tip:* Heating the tubing in hot water eases the installation of the tubing onto the fittings.

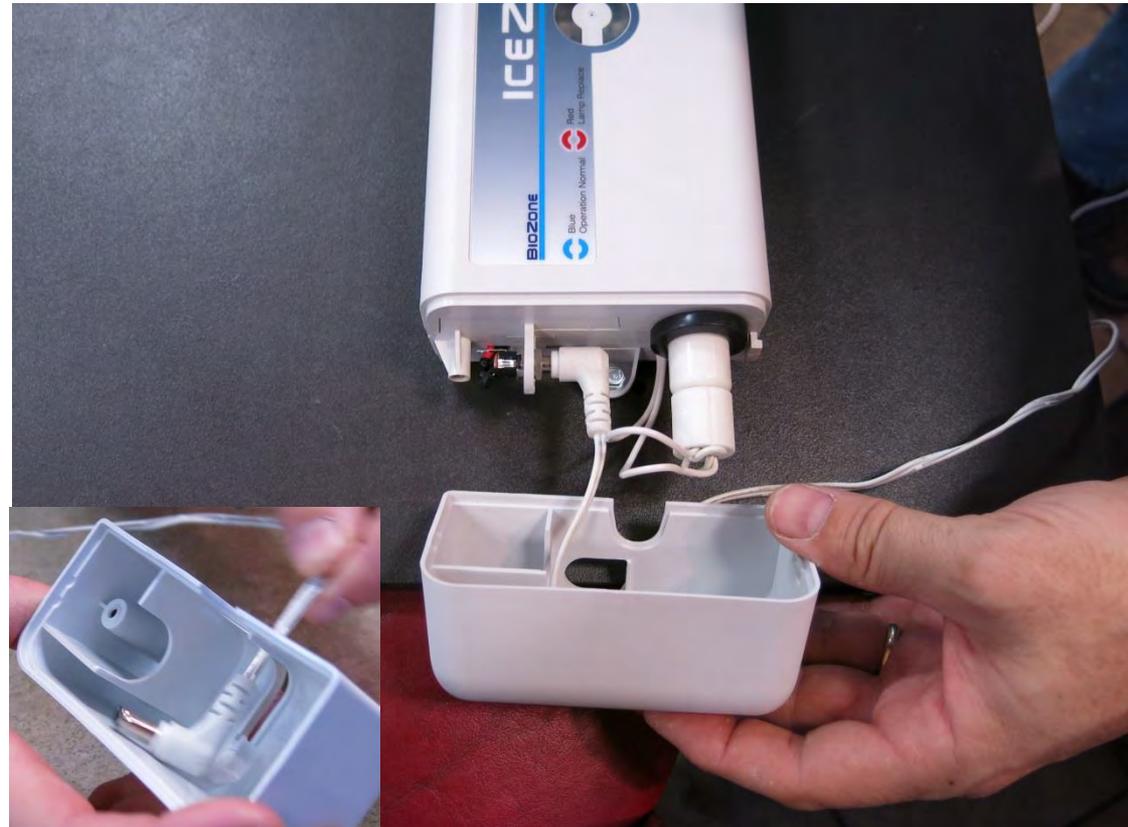


Tighten the handy clamps with a pliers to secure the tubing on the IceZone<sup>®</sup> Unit.



Insert the DC plug from the wall adapter through the “P” shaped hole in the service cover.

Plug the DC connector into the IceZone® Unit's power input plug.



Reinstall the service cover and secure with the original screw.



**For Single Machine Installations**

The completed installation on the cover should look like the picture shown.



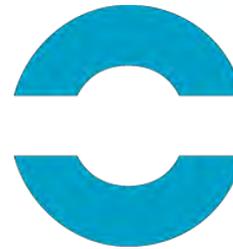
## For Single Machine Installations

The completed installation on the ice machine should look like the pictures shown.

The supply fitting is located between the curtains and the return fitting is located at the floor of the ice machine.

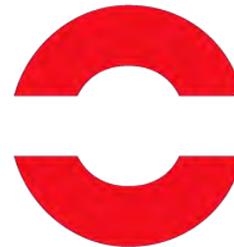


When IceZone<sup>®</sup> is connected to power correctly and the the operation is normal a blue light shows on top of the unit.



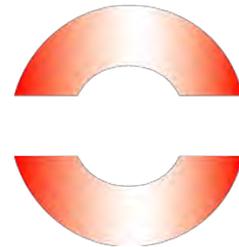
**Blue:**  
**Operation Normal**

When the red light is steady on top of the IceZone<sup>®</sup>, the lamp needs to be changed.



**Red:**  
**Replace Bulb**

When the red light is flashing on top of the IceZone<sup>®</sup>, the unit requires service.



**Flashing Red:**  
**Service Required**

**BIOZONE**<sup>®</sup>  
SCIENTIFIC INTERNATIONAL

**ICEZONE**<sup>®</sup> *x* Installation

*Thank you for installing*

**ICEZONE**<sup>®</sup> *x*

