

## **PRE-INSTALLATION PROCEDURES**

**⚠ DANGER! ELECTRICAL SHOCK HAZARD.**

*Only qualified personnel who have read and understand this entire manual should attempt to install, or service this unit, failure to do so could result in death or serious injury. DO NOT plug into an electrical supply until specifically instructed.*

**⚠ WARNING! ALWAYS SANITIZE BEFORE USE.**

*Sanitize before use to eliminate any potential microbiological contaminates.*

### **Materials Needed:**

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
  - Phillips Screwdriver
  - Water Pitcher or Container to collect water from the faucet
  - 1 Capful of Household Bleach (5.25% Sodium Hypochlorite)
  - ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
  - TDS Meter and Test Strips for measuring chlorine - Optional
  - 1/8 NPT Female Thread to ¼" Compression Fitting (Used to connect hose to drain fittings)
1. Unpack the **Waterlogic ICE 900 Water Treatment System** and check exterior for damage.

**⚠ WARNING! ICE 900 WATER TREATMENT SYSTEM IS HEAVY.**

*Use proper lifting aids and handling techniques to avoid injury. Use assistance as single person lift could cause injury. Always drain before handling and transporting and handling to reduce the weight of the unit.*

2. Carefully remove front lower panel. Push down and gently pull toward you to release hooks from side panel.

### **Flush Filters**

**⚠ CAUTION! FILTERS FLUSH REQUIRED.**

*In order for our Filters to perform as represented and to provide the best quality water possible, it is essential that Filters be replaced periodically. The frequency of Filters changes depends upon your water quality and your water usage. For example, if there is a lot of sediment and/or particles in your water, then you will have to change your Filters more frequently than a location with little to no sediment. Be sure to replace your Filters whenever you notice a decline in the performance, whether it is a drop in flow rate and/or pressure or an unusual taste in the water.*

**NOTE:** Filters should not be flushed prior to 24 hours before installation to limit Microbial Growth.

**⚠ CAUTION!** *O-RING TO REMAIN IN PLACE AT TOP OF FILTER.* Failure to keep the O-ring in place will result in the filter leaking.

**⚠ CAUTION!** *DO NOT DISCARD THE O-RING AT TOP OF FILTER.* Filters are not supplied with the O-Ring.



### FLUSH PRE-CARBON FILTER

3. Plug power cord in.
4. Turn off Incoming Water Supply.
5. Remove white tube above Sediment Filter on the Filter Block.
6. Install a tube that will reach the drain or bucket that will be used to collect water used in filter flushing process.



7. Remove Sediment Filter and set aside by unscrewing filter from filter block by hand or using a strap wrench if needed.

*Flushing of the filters will take place in the Sediment Filter Location*



8. Install Pre-Carbon Filter into the now empty Sediment Filter Location.



9. Turn on Incoming Water Supply

10. Run 7-8 Gallons of Water through the Pre-Carbon Filter.



11. Turn off Incoming Water Supply.

### FLUSH POST CARBON FILTER

12. Install Post-Carbon Filter into the empty Sediment Filter Location and flush as stated for the Pre-Carbon Filter above.



### FLUSH SEDIMENT FILTER

13. Install Sediment Filter into its location and flush as stated for Pre-Carbon Filter above.

14. Reinstall the filters back to their correction location. The Filter Block identifies correct location of the filters.



## SANITIZATION

1. Remove Top Cover to access the Ambient Tank– remove the two screws from back of the Top Cover. Slide the Top Cover towards rear of the **ICE 900** and lift Top Cover Up.

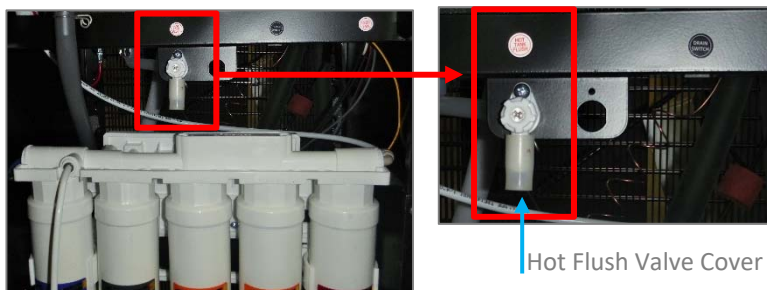


## FLUSH HOT TANK



Do not fill past the “fill line” or the overflow sensor will shut down the system. If this occurs, see the Troubleshooting section addressing.

2. Access the Ambient Water Tank by removing the Tank Cover – rotate counter clockwise as shown and fill the Ambient Tank 2-3 times to ensure that any odorous tastes left in the system lines, etc. are removed.
3. Remove the Front Bottom Cover to the **ICE 900** to gain access to the main filter housing area and to reveal the filter block.
4. Remove Hot Flush Valve Cover located above the Filter Block as shown.



- Attach a 3/8" hose from the Hot Water Flush Valve. Hose to be long enough to drain water into the drain or bucket.



3/8" Hose



- Open Hot Flush by turning the flush valve counter clockwise.



- Turn "DRAIN" valve "ON" and drain the water in the Hot Tank.



"DRAIN" Label



Change DRAIN Switch to "ON"

- Catch water from the Hot Tank Flushing Valve in a bucket or drain. Re-fill and drain the ambient water tank for 2-3 times to complete the flushing of the Hot Water System.



**NOTE:** Systems LED's on the front panel will continuously and flash and the *ICE 900* will sound while the "DRAIN" switch is in the ON position.

- Add one capful of household bleach to the inside of the Ambient Tank.



**CAUTION!** Always ensure proper ventilation and use proper personal protective equipment such as gloves and eye protection when using chemicals. Refer to Material Safety Data Sheet for specific requirements of each chemical product. Take all necessary precautions to prevent sanitizer from contacting eyes, clothing, and any other surfaces in could damage (carpets).

- Fill Ambient Tank with Water. Do not fill past the "fill line" or the Overflow Sensor will shut down the system. If this occurs, see the Troubleshooting section addressing.

11. Run several gallons of water, a minimum of 8 gallons through the faucet by dispensing cold-water to dilute and remove the sanitizer from the cold circuit. You can use chlorine test strips to evaluate the water. Ensure any odor / taste issues have flushed out of the machine



### Compressor Test

12. Once the water level is above minimum the compressor will automatically start. Verify by feeling the compressor and the discharge of heat off the condenser at the rear grill of the machine. Heat exchange is a signal that the refrigeration system is working properly.
13. Once the cold-water in the cold reservoir reaches its target temperature, the ice making process will start until the ice bin is full. The ice full light will illuminate green and the compressor will shut off. Draw a glass of cold-water and ice verify it has been chilled to proper temperature and inspect cubes to ensure ice making process is running properly.

### Heater Test

14. It will take the heater approximately 10 minutes to heat the water from ambient 75°F to the set point. Dispense a cup of hot water to ensure the temperature/odor/taste is acceptable.

**⚠ WARNING! VERY HOT WATER CAN BURN OR SCALD.**

*Hot water should be dispensed carefully into insulated container to avoid injury.*

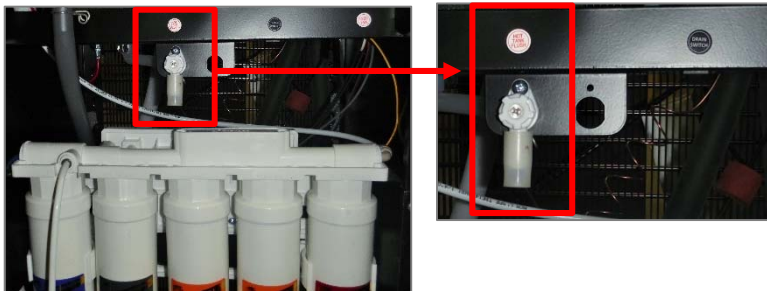
## DRAINING

Drain the **ICE 900 Water Treatment System** for transportation per the Draining Instructions in this and all other supplied manuals.

**⚠ WARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.**

*The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth).*

1. Remove the front lower cover to gain access to the Hot Flush Valve.  
Remove the front lower cover by carefully pushing down and gently pull towards you to free the panel hooks from the side panel slots.
2. Remove Hot Flush Valve Cover located above the Filter Block as shown. Follow instructions to remove Front Bottom Cover.



Hot Flush Valve Cover

3. Attach a 3/8" hose from the Hot Water Flush Valve. Hose to be long enough to drain water into the drain or bucket.



3/8" Hose



4. Open Hot Flush by turning the flush valve counter clockwise.



5. Turn "DRAIN" valve "ON" and drain the water in the Hot Tank.



"DRAIN" Label



Change DRAIN Switch to "ON"

6. Catch water from the Hot Tank Flushing Valve in a bucket or drain. Re-fill and drain the ambient water tank for 2-3 times to complete the flushing of the Hot Water System.



**Note:** Systems LED's on the front panel will continuously and flash and the ICE 900 will sound while the "DRAIN" switch is in the ON position.

7. Drain the Ambient / Cold-water System



8. Reassemble the **ICE 900** to transport.



## **INSTALLATION PROCEDURES**

### **Safety and Installation Guidelines**

Ensure all Local, State, and Federal Laws and Codes including health and safety guidelines are met when installing **Waterlogic** Equipment. Only qualified service technicians should attempt installation and service of **Waterlogic** Equipment.

- ⚠ WARNING! ELECTRICAL SHOCK HAZARD.** *Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.*
- ⚠ WARNING! IMPROPER SUPPLY OR CONNECTION CAN RESULT IN RISK OF SHOCK.** *Connect to a 15 amp 120V 60Hz properly grounded outlet (GFI is recommended). Ensure polarity is correct and always use a 3-prong outlet. Consult a qualified electrician if you have any questions.*
- ⚠ WARNING! USE ONLY SUPPLIED POWER CORD.** *Locate system within reach of power supply. Never use an extension cord or adapter. Do not use a damaged power cord or plug. Keep power cord out of heavy traffic areas and away from heat sources. Do not, under any circumstances, remove ground prong or alter the power cord. Never pull the power plug from the outlet with a wet hand or allow the plug to get wet. Failure to use the supplied power cord will void UL Certification and Warranty.*
- ⚠ CAUTION! INDOOR USE ONLY.** *Never exposed to direct sunlight, heat sources, or ambient air temperature above 97°F (36°C) or below 50°F (10°C). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 4-inches. Installs where the ambient temperature exceeds 80°F, require a minimum of 8-inches clearance for proper heat dissipation and efficient operation.*
- ⚠ CAUTION! USE A WATER PRESSURE REGULATOR.** *Waterlogic will not be responsible for injury or damage caused by excessive water pressure. Operating pressure to machine must be 40 psi to 60 psi. Be aware any of potential pressure surges caused by building/municipal pumping stations.*
- ⚠ CAUTION! USE UV STABILIZED SUPPLY LINES.** *Feed the unit with a potable ambient or cold-water supply only. Feed water over 105° F (40°C) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible.*
- ⚠ WARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.** *The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use to eliminate any potential microbiological contaminants*

**The ICE 900** utilizes a Reverse Osmosis Filtration System. The unit and ice making process is calibrated to utilize the supplied filtration and requires a drain connection. Do not alter the filtration system. Refer to all applicable plumbing codes and standards in your area for these requirements (air gap connections and back flow prevention may be necessary).

Pre-installation and sanitization procedures as prescribed in this manual must be performed before installing the **ICE 900 Water Treatment System**.

Always install indoors and place the **ICE 900** on a firm, flat and stable surface. It is critical that the unit be level to produce consistent ice and avoid ice tray freezing issues.

Attach the water supply line to the 1/4" feed water inlet bulkhead fitting on the back of the unit.

**Waterlogic** requires the use of a water pressure regulator. Water feed pressure must be between 40-60 psi. Turn on the water supply and check for leaks. Leak detection and prevention are strongly recommended at the source.

1. Connect the power cord to the back of the **Waterlogic ICE 900 Water Treatment System** and to a 120 Volt supply.
2. Hook up drain and waste water outlet to drain. Condensate pump may be necessary to pump water to drain. See condensate pump installation instructions.
3. Move the **Waterlogic ICE 900 Water Treatment System** into its final operating position. Be sure that a minimum of 4" clearance is maintained around both the sides and the back of the unit. This is important to allow proper airflow and heat exchange of refrigeration system.
4. Level unit using the adjustable feet to level if necessary. Never install on incline.
5. Wait for water to heat and cool to meet customer expectations. Taste water to determine if additional rinsing is required.
6. Ensure ice is making 12 properly sized cubes and timing is within expectations (batch of 12 cubes every 11-12 minutes).
7. Check the unit for any leaks. External Leak Protection is always recommended.

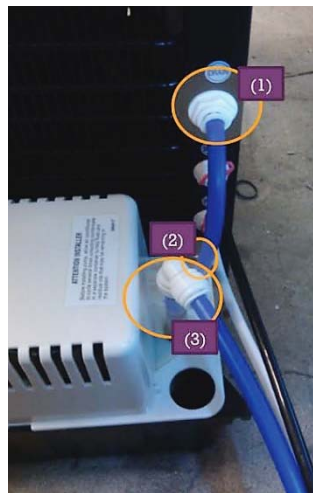
## DRAIN (CONDENSATE PUMP) INSTALLATION

When and why is a pump needed?

All ice units require a drain to take melted ice water from the ice storage house and RO condensate water to drain. If a floor drain is not readily available, a condensation (sump) pump may be required. This all depends on the distance and height to the drain to ensure water is removed and will not back up the drip tray or obstruct the RO process.

### CONDENSATE PUMP – TYPICAL PLUMBING

A 3/8" drain is located above the inlet / outlet of the ICE 900 and should be run into the (2) holding area of the condensate pump. The (3) pump outlet should then be plumbed to an available drain.



### CONDENSATE PUMP – ALTERNATIVE PLUMBING

Due to certain installation restrictions, it may be necessary to connect the brine line and the drain line from the condensation pump together with a tee union (1).

This is not a recommended installation procedure. It is only provided as an alternative option.

Install (2) check valve to prevent back flow from the condensation pump to the membrane.

