OASIS®
Water Friendly Solutions

INSTALLATION & SERVICE INSTRUCTIONS

BU1PVECHS(Y)
BU1PVECK(Y)
Series Coolers

BEFORE YOU START USING THIS WATER COOLER PLEASE READ THE FOLLOWING INSTRUCTION VERY CAREFULLY.

WARNINGS:

- 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 THE PERSON RESPONSIBLE FOR THEIR SAFETY
- CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE
- IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SPECIAL CORD OR ASSEMBLY AVAILABLE FROM THE MANUFACTURER OR ITS SERVICE AGE
- FAILURE TO FILL HOT TANK WITH WATER BEFORE TURNING ON THE HOT TANK CAN DAMAGE THE UNIT
- THIS APPLIANCE MUST BE EARTHED

Contents:

- Technical Specification
- Pre-Delivery Inspection
- Installing the OASIS green filter system
- Cooler Installation
- General Troubleshooting Guidelines
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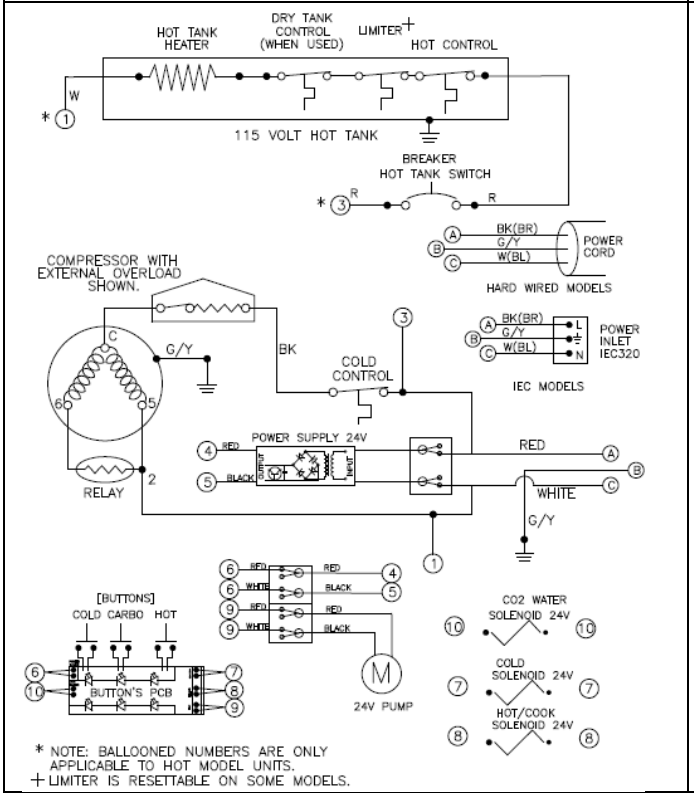
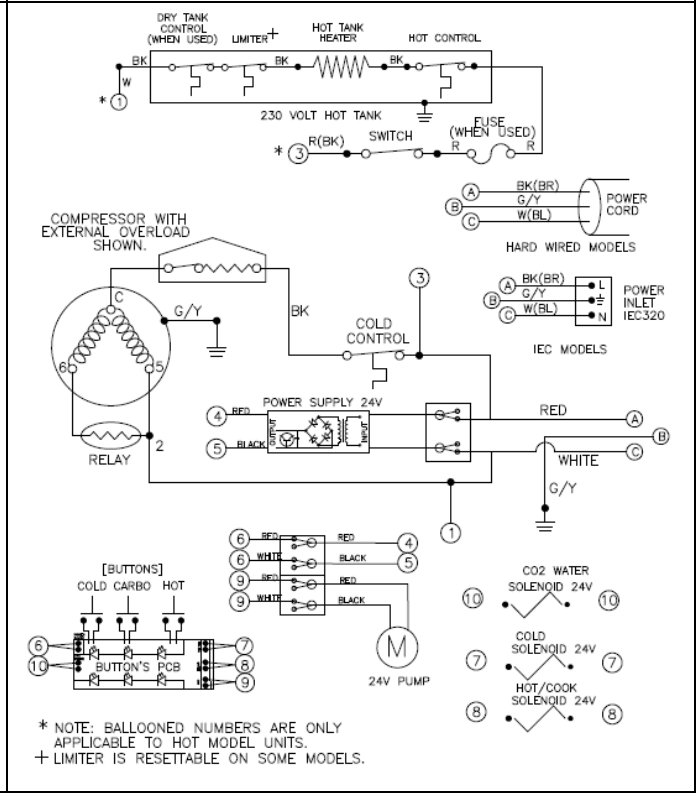
- Cleaning and Sanitizing Instructions

Technical Specification:

- **Product Dimensions**
  - Height: 1125mm
  - Width: 318mm
  - Depth: 405mm
  - Net Weight:
    - 32.5 kg BU1PVECHS(Y)
    - 31.5kg BU1PVECK(Y)
- **Electrical Specification**

Model	BU1PVECKY	BU1PVECHSY	BU1PVECK	BU1PVECHS
Voltage	220 - 240V 50/60Hz	220 - 240V 50/60Hz	115V 60Hz	115V 60Hz
Current (Total)	0.8 A	3.0 A	1.8 A	5.8 A
Power (Cooling)	100 Watts	100 Watts	100 Watts	100 Watts
Power (Heating)	-	520 Watts	-	450 Watts

Wiring Diagram

115V	230V
	

General Information

- The BU1PVECHS Series coolers are designed for use with a supply of bottled water. The cooler should not be used with water supplies of unknown bacterial quality or those that are not already fit for human consumption.
- This unit is suitable for indoor use in domestic, commercial & industrial locations. They should not be sited in locations where they may be subjected to rain or snow.

Cooling System

- The BU1PVECHS Series coolers use the OASIS Pressure Vessel Direct Chill (PVDC) cooling tank system. The cooling tank is manufactured from 304 Stainless Steel which is non-corrosive and inert.
- The cold water temperature is preset at the factory at approximately 7°C (45°F) – the water temperature is controlled by a thermostat that is located on the back of the unit. Cold water temperatures may be adjusted via a slotted screw on the body of the control (can be accessed through wires on the condenser). Turning this screw in the clockwise direction will make the water colder (and vice versa).

Hot Water System

- The hot water temperature is preset at the factory at approximately 86°C (187°F) – the water temperature is controlled by a thermostat that is located on the hot tank. Hot water temperatures may be adjusted depending on the hot tank model.

Carbonated Water Circuit

- The carbonation level of the water is based on coldness of the water and pressure of the CO2 bottle. The carbonation level in the water can be increased by either raising the CO2 pressure (max 60psi/15 l per min) or reducing the temperature of the cold water used for carbonation.
- The pre carbonated cooled water is taken from the cold tank, pressurised through a pump and mixed with CO2 gas within a carbonator tank inside the OASIS Pressure Vessel Direct Chill (PVDC) cooling tank system. The tank is made from food grade plastics and 304 Stainless Steel
- Carbonated water temperatures are controlled by the temperature of the cold water inside the OASIS Pressure Vessel Direct Chill (PVDC) cooling tank system. Adjusting the cold water temperature also adjusts the carbonated water temperatures.
- The carbonator tank is a pressurised system and protected with expansion tank.
- Purging of the CO2 circuit is necessary at initial start up, after sanitization and after the water is completely drained in the reservoir.

Compressor

- The compressor uses the hydrofluorocarbon refrigerant R134a which is a non-Ozone depleting substance with a Global Warming Potential of 1,300. The compressor is controlled by an electromechanical thermostat that controls the temperature of the water in the cold tank
- The compressor is equipped with an automatic reset protector that disconnects the motor from the line in case of an overload.
- This unit is equipped with a sealed compressor that requires no additional lubrication.

Water Pipe and Fittings

- The entire internal water circuit and all the components which come in contact with water are made from food grade approved material

Mounting Feet

- The unit is supplied with 4 mounting feet which can be used to level the cooler on uneven surfaces.

Maintenance

- Periodically remove dirt and lint from the condenser. Inspection should be done every three months. If cleaning is required, disconnect the power supply cord, and then clean the condenser with a small stiff <u>non</u>-wire brush. Following this procedure will ensure adequate air circulation through the condenser for efficient and economical operation.
  NOTE: <u>Under no circumstances should the cabinetry be cleaned using a water jet</u>
- WaterGuard helps prevent foreign matter from entering the cooling tank. Its parts should be inspected, cleaned and replaced (if necessary) at regular intervals. Operation of the cooler without WaterGuard components in place may allow airborne dust particles to enter the cooling tank.
- Cleaning of water contact components
  - The European Bottled Water Association recommends that water contact parts should be cleaned and sanitised every 3 months. It is recommended that this process is carried out by trained personnel

Water Valves:

- Control of water dispensing is achieved by means of electrical solenoid valves (3x 24V).

Panels:

- All external moulded panels are made from ABS plastic. The material used is UV resistant and meets all CE and UL requirements for fire safety. All metal panels are made from galvanized steel which is then painted. The galvanized coating provides increased resistance to rust and corrosion.

CO2 bottle location

- CO2 bottle can be located in the filter compartment. To gain access to filter compartment see relevant section in this manual. A base and reusable cable tie or Velcro strap (depends on model) are supplied to secure the bottle at the installation site. Do not transport cooler with the CO2 bottle inside the filter compartment as this could damage the cooler. The total max height of CO2 bottle that can be fitted inside the compartment is 420mm The max diameter of the CO2 bottle is 160mm.
- Larger CO2 bottles must be installed away from the cooler

CO2 bottle regulator

- A CO2 regulator may be supplied with the cooler depending on model. This is located inside the filter compartment
- CO2 regulators may be adjustable depending on model
- CO2 regulators may differ depending on region

Spare Parts

- Oasis International supplies spare parts for all of its watercoolers. For European service, please check the OASIS web-site at www.oasis.ie for full illustrated parts breakdowns that give full details of all replacement parts. For service from the United States, refer to the OASIS International web-site www.oasiscoolers.com

Pre-Delivery Inspection:

1. Examine the packaging for signs of damage – report any damage to the carrier.
2. Remove the carton from the cooler – cut the tape and lift the carton from the cooler. Store the carton and foam packaging for repacking the cooler prior to shipping it to the customer.
3. Remove the shipping bag from the cooler
4. Carry out a general inspection of the cooler, ensuring that :
   a) There are no marks or physical damage to the cooler
   b) All accessories are present
   c) All wires and electrical connections are in place at the back of the cooler
   d) All tubes and water connections are in place
   e) That the cooler is clean and dust free
5. Install your filtration system
6. Replace the shipping bag over the water cooler
7. Replace the carton over the top of the cooler and tape ends
8. The cooler is now ready for transportation to the customer's premises

NOTE: Whenever you transport the cooler to or from your premises, you should ensure that a shipping bag is placed over the cooler. This will prevent damage to the cabinet caused by coolers rubbing against one another in the back of the truck or van.

Accessing Cooler Compartment

- Lift out and remove the drip tray
- Depress the clip visible through the slot in the alcove and lean the top of the door forward
- Remove the door from the cooler



Cooler Installation:

The general installation guidelines below should be followed:

- The cooler must be located on a floor that is smooth, level and easily cleaned.
- Do not locate the cooler in direct sunlight.
- Do not locate the cooler next to a radiator.
- Do not locate the cooler within or directly adjacent to toilet facilities.
- Do not locate the cooler in constantly damp areas, beneath dripping pipes, or where water may collect underfoot.

Examine the proposed cooler location for the following:

- Location of electrical supply
  - The cooler should be installed no more than 2 meters (6 feet) from the nearest electrical outlet.
  - It should be possible to access the plug when the cooler is in its final position.

TO PUT BOTTLE WATER COOLER INTO SERVICE

1. This unit is suitable for indoor use in domestic, commercial & industrial locations. They should not be sited in locations where they may be subjected to rain or snow.
2. Carry the cooler in the upright position to the customer's premises - use the handle at the rear of the unit.
3. Remove the shipping bag from the cooler.
4. Carry out a general inspection of the cooler, ensuring that :
   a. There are no marks or physical damage to the cooler.
   b. That all accessories are present.
   c. That all the wires and electrical connections are in place at the back of the cooler.
   d. That the cooler is clean and dust free.
5. Level the machine using the adjustable feet
6. The water cooler should be located a minimum of 2" from the wall to assure adequate condenser air circulation.
7. The unit should be operated with the stability cord at the rear of the unit fixed to the wall at all times.
8. The stability cord wall fixing should be mounted securely to the wall at a height of 660mm from the floor. The unit should be located approximately 140mm from the wall. Ensure that the cord is taut.

9. Power cords fitted to the cooler must be tied securely to the back of the unit (base) using the cord re-strainer supplied, in such a way that it is not possible to remove the power cord from the appliance by pulling on the flexible cord.
10. Bottles should be no larger than 19 litres
11. When fitted to a cooler the height from the floor to the top of the bottle should not exceed 1.5 metres.
12. Ensure that the appliance is positioned to give access to the plug after the unit is installed.
13. Recommended ambient temperatures for correct operation of the unit are between 10ºC and 32ºC
14. For safe operation, the unit should always be placed on a level surface.
15. Check the available power supply against the water cooler data plate to ensure correct electrical service. (DO NOT PLUG IN AT THIS TIME)
16. Cold water temperatures may be adjusted via a slotted screw on the body of the control (can be accessed through wires on the condenser). Turning this screw in the clockwise direction will make the water colder (and vice versa)
17. The A-weighted sound pressure level of this appliance is below 70 dB
    CAUTION: DO NOT INSTALL THE WATER COOLER IN AN AREA WHERE WATER JETS MAY BE USED

Cooler Set Up

- Refer to the "Set Up Guide" supplied with the water cooler for detailed instructions on how to put the water cooler into service. If you have mislaid this document, then it can be downloaded from the OASIS web-site.
- Note that different Set Up guides are available for products sold in Europe and North America

TO DISCONTINUE USE OF BOTTLE WATER COOLER

Hot, Cold& Carbo Model

1. Place the hot tank switch in the “OFF” position.
2. Draw water from the hot faucet until the water is cool. To do so press and hold hot water button until red light begins to flash, release button to unlock and press it again.
3. Remove the bottle from the reservoir.
4. Drain water in the reservoir through Hot, Cold, and then Carbo faucets.
5. Disconnect cooler from power supply.
6. Set to CLOSE the CO2 regulator
7. Empty the Hot Tank:
   a) Place a container under the Hot Tank drain valve placed at the back of the cooler.
   b) Turn the drain valve counter clockwise to open.
   c) Turn the drain valve to the closed position when the tank is empty.

   ALWAYS DRAIN ALL WATER WHEN FREEZING TEMPERATURES ARE ANTICIPATED AND BEFORE SHIPPING THE WATER COOLER.

Fittings

All fittings and piping used to attach the water cooler to the water supply must be approved to the relevant local standards.
These fittings can be purchased from Oasis International or Oasis Europe can refer you to reputable suppliers in your market place.

The following general guidelines apply to the water supply line:

- Pipework should avoid light fittings and electrical and gas piping
- Pipework in public view should be securely and neatly fixed.
- All pipework should be accessible and clearly labeled.
- Pipework should be lagged when necessary to avoid freezing or high temperatures.

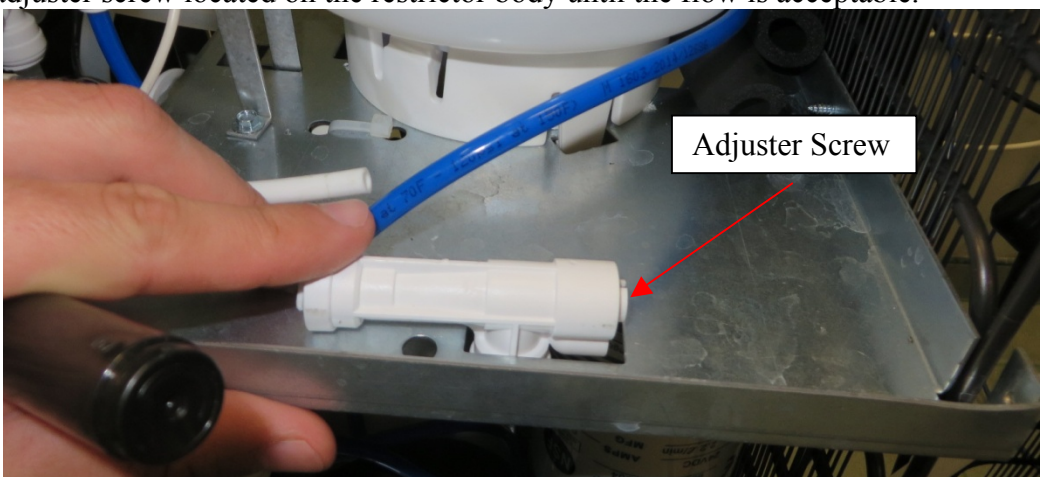
EUROPE ONLY

Sanitisation:
EPDWA guidelines state:
All coolers must be sanitized before commissioning
When a customer signs up to the sanitisation program, the cooler should be sanitized every 6 months
Sanitisation should be carried out in accordance with the manufacturer's instructions – see attached documents.

General Troubleshooting Guidelines:

- No water flow when any dispense button is pressed:
  - Ensure that the unit is connected to the electrical supply, and that power is going to the unit.
  - Ensure that the bottle is not empty
- Water flows from the hot system, and no water flows from cold system:
  - Water within cooling system is frozen.
    - Check the thermostat setting – turn counter-clockwise to increase the temperature setting of the cold water.
    - Disconnect the power from the unit and allow the ice inside the cooler to melt.
- Water dispensed from the cold system is not chilled:
  - Ensure that the cooler is not located in direct sunlight.
  - Check that the thermostat on the rear of the unit has not been turned off.
  - Check if the compressor is running – if not, then replace starting relay.
  - If the compressor is running and no cold water is available, then there may be a fault in the refrigeration system.
- Bad taste:
  - Flush the machine for a period of 15 minutes. If the bad taste persists, contact your authorized service provider.
- Low flow of cold water:
  - If this happens in the cold water circuit, there may be a problem with freezing. Refer to the notes for "no water flow from cold system" above.
- Low flow of water for all circuits of the machine:
  - Ensure that the filter is not blocked
  - Ensure all valves in the system are in the fully open position
  - Check the water supply pressure
- CO2 water not carbonated:
  - CO2 bottle empty
  - CO2 bottle valve not open

  - Air gap in the mixer. Purge air from Carbonator by pulling the ring pull on the safety valve together with CO2 water button pressed until the water comes out of the valve. The ring is located in the filter compartment.
- No water flow when CO2 button is pressed:
  - No water entering the unit. Refer to the notes for "no water flow from cold system" above.
  - Ensure all wires are connected to the CO2 electronic board
  - Ensure pump is running when button is pressed
  - Water within cooling system is frozen. Refer to the notes for "Water flows from the hot system, and no water flows from cold system"
  - Ensure solenoid is working when button is pressed.
- Erratic flow when CO2 button is pressed or unit does not dispense 0.5 litres of water continuously:
  - CO2 gas pressure too high - adjust regulator setting
  - Adjust flow restrictor that can be accessed through the condenser wires by screwing the adjuster screw located on the restrictor body until the flow is acceptable.



Accessing the Internal Chassis:
In order to carry out repairs to the refrigeration system, you may need to remove the side panel(s) from the cabinet. Please follow the instructions given below to carry out this operation:

SAFETY INSTRUCTIONS
- Isolate the water cooler from the water supply – this may be done by removing 19L bottle from cooler
- Disconnect the cooler from the power supply.

Remove Top from the Cooler:
- Remove the two screws at the rear of the top, and lift off the lid assembly

Remove Side Panel
- Remove the four screws that hold side panel.
- Lower the panel vertically by about 20mm (3/4") so that it clears the key slot, then lift the panel away from the cooler.

Cleaning Instructions:
Cleaning Procedure

Water coolers need to be cleaned periodically to prevent mineral build-up inside the heating tank. The frequency of cleaning is determined by the quantity of minerals in the water and the amount of water used. The hot tank may require cleaning when:

- Normal hot water flow appears restricted.
- Noisy heating cycles are heard.
- Mineral build-up has imparted a taste to the water.

General Cabinetry Cleaning:

- Turn off the power at the wall socket and remove the power cord at the rear of the machine.
- Wear clean rubber gloves to carry out the cleaning functions.
- Remove and clean the drip tray assembly.
- Wipe down all machine surfaces with a mild soap solution or mild cleaner.
- Replace the drip tray.
- Re-connect the machine and turn on the power and check for correct operation

THIS APPLIANCE MUST BE EARTHED.

This appliance is not suitable for unsupervised use by young children or aged and infirm persons. The warranty, Underwriter's Laboratory certification and CE certification for this machine are automatically void if any alteration, modification, or combination with any other machine or device is deemed to be the source of any claim. The UL and CE certification may be void as the result of any alteration or modification. The manufacturer accepts no liability resulting from any alteration, modification, or combination with any other machine or device.

EXCEPT AS SET FORTH HEREIN, THE MANUFACTURER MAKES NO OTHER WARRANTY, GUARANTEE, OR AGREEMENT EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Manufacturing location:
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www.oasiswatercoolers.com

BU1PVECHS Set Up Guide

BEFORE YOU START USING THIS WATER COOLER, PLEASE READ THE FOLLOWING INSTRUCTION CAREFULLY

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- CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE
- IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SPECIAL CORD OR ASSEMBLY AVAILABLE FROM THE MANUFACTURER OR ITS SERVICE AGENT
- FAILURE TO FILL HOT TANK WITH WATER BEFORE TURNING ON THE HOT TANK CAN DAMAGE THE UNIT
- THIS APPLIANCE MUST BE EARTHED
- IN ORDER TO MEET UL REQUIREMENTS, THIS WATER COOLER MUST BE PLUGGED INTO A GROUND FAULT CIRCUIT INTERUPPTING (GFCI) RECEPTACLE

Cleaning the cooler

- Before cleaning the cooler you should ensure that the unit is unplugged from the power supply
- Under no circumstances use abrasive cleaning products or chlorine based cleaners – they will damage the finish surface of the cooler
- Use mild soap to clean the panels
- OASIS recommends that you use an anti-bacterial wipes to clean the water outlet on a weekly basis

Emptying the Drip Tray

- The drip tray comes with an optional self-drain facility. Check with your service provider if this option has been installed – if you have a self-drain drip tray then you do not need to remove it for emptying.
- To remove the drip tray, you need to lift it up by about 30mm before you pull it forward.
- The easiest way to lift up the drip tray is to place your thumb on the front face of the drip tray, and then hook your forefinger through the hole in the centre of the grille

Changing Water bottle

- If there is a problem with sparkling water dispensing after the bottle has been replaced purge air from the carbonator by pulling the ring on the safety valve together with CO2 water button until the water comes out of the valve
- See Section 2.7 for full details

Step 1: CO2 Cylinder Installation

1. Lift out and remove the drip tray

2. Depress the clip visible through the slot in the alcove and lean the top of the door forward

3. Remove the door from the cooler

4. Connect the OASIS supplied CO2 regulator to the CO2 cylinder and then tighten it with a wrench

5. Connect CO2 blue tube to the quick-fit connector on the CO2 pressure regulator

6. Place the cylinder in the compartment and secure it with the Cable Tie

Step 2: Fill Unit with Water

1. Invert a water bottle on top of the cooler and wait for reservoir to fill – this should take no longer than 2 minutes

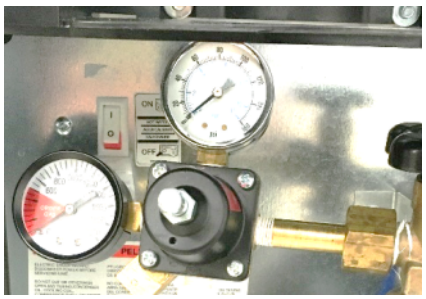
2. Connect unit to Power Supply
NOTE: Ensure Hot Tank Switch is in "OFF" position

3. Draw water from the cold faucet. Press and hold cold water button (marked with BLUE light) until water flows freely. This will take no more than 2 minutes.

4. Draw water from the hot faucet. To do so press and hold hot water button (marked with RED light) until red light begins to flash, release the button to unlock and press it again. Keep the button pressed until water flows freely and all air is expelled (filling hot tank with water will take no more than 2 minutes)

5. Draw water from the CO2 faucet. Press and hold CO2 water button (marked with GREEN light) until water flows freely. This will take no more than 30 seconds

6. Turn on the hot tank switch placed on the front of the cooler



7. Purge air from Carbonator by simultaneously pulling the Ring Pull on the safety valve while pressing the CO2 water button until water comes out of the valve. The ring is located inside the compartment at the top right near the CO2 cylinder.

8. Fully open the main valve on top of the CO2 cylinder and check for CO2 leaks

9. Set the gauge on the OASIS supplied pressure regulator to 60 psi

10. Replace door and drip tray. Dispense a few cups of carbonated water to allow initial mix of water & CO2 Gas. Allow water sufficient time to chill before ideal carbonation. Four to five hours is recommended after the initial set-up.

OASIS recommends that all water coolers be sanitised before being put into service