Crystal Quest® Bottleless Water Coolers
Installation and Maintenance Instructions

ISO 9001:2008
Certified Manufacturer

OPERATING SPECIFICATIONS

Pressure Range: 30-60 psi (2.1-4.1 bar)
Temperature Range: 40-100ºF (4.4-37.7ºC)
Optimum Service Flow: 0.50 GPM at 60 psi (1.1 LPM at 4.1 bar)

Do not lay the cooler on its side. The system must be in an upright position at all times. When carrying, do not lift the system by the spouts.

• The system needs to be installed by a licensed plumber in any state or country; however, the following states specifically require a licensed plumber to install the system OR allow a state-registered installer or contractor: AR, CA, GA, KS, MA, MI, MN, OK, RI, SC, SD, TX, VT, and WI.

• A pressure regulator, such as a slow-flow regulator, must be installed in front of the unit's water inlet if the water pressure (including any possible pressure spikes) could exceed 60 psig. Failure to comply will void the warranty. Crystal Quest® accepts no liability for damage caused by excessive water pressure or improper installation.

• Installation must be made within a protected area covered from the elements and freezing. The unit must be protected from rain, dust, flooding, snow, freezing, and direct sunlight (the system's direct exposure to sunlight may cause algae growth in the tank reservoir). Failure to comply will void the warranty.

• Use only ¼" OD tubing to connect the cold water supply to the system.

• Check all the connections (i.e., water hose/tubing, connectors/fittings) to ensure proper connection and avoid leaks.

• Check plumbing inlet and outlet to ensure the proper flow of water through the system.

• Plug the system into a 110 volt grounded outlet which contains a fuse or circuit breaker of 20 amps.

• Locate the system near a cold water supply line. Do not set the system farther than 15 ft. from the cold water line. Use copper tubing to avoid water line puncture and rodent bites. Failure to do so may cause major property damage. Crystal Quest® accepts no liability for damage.

• Install the system in a well-ventilated area where the temperature is consistently above 60ºF.

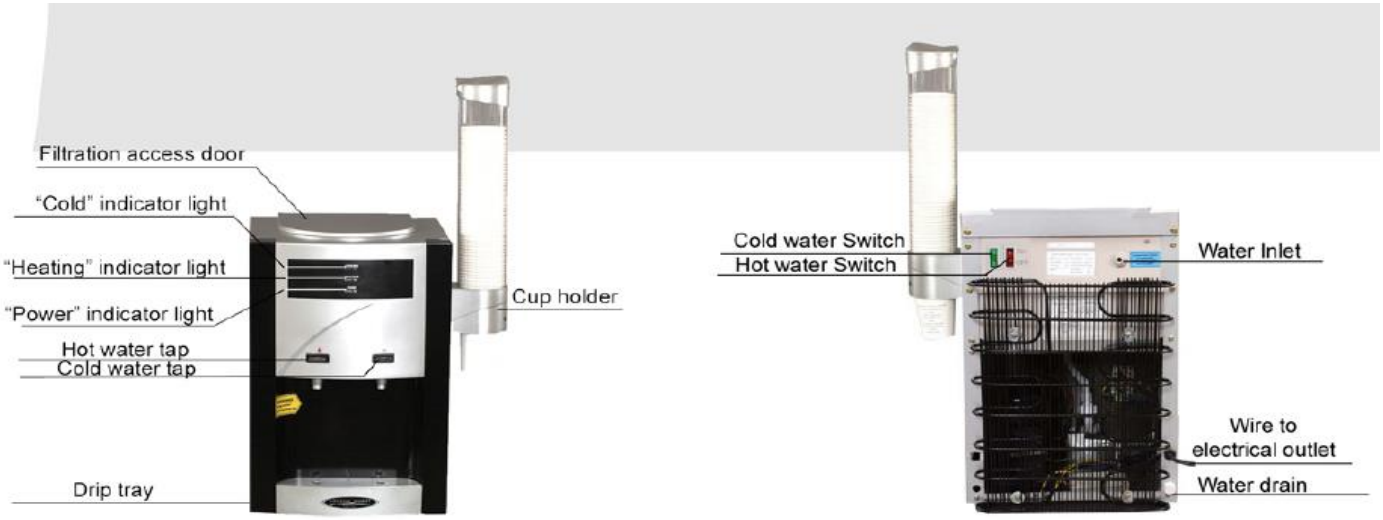
• System must have a 2" clearance on all sides to ensure proper ventilation.

• Install the auto shut-off valve to control and reduce the cold water supply line pressure to 25 psi and maintain at 25 psi to avoid bursting.

• Hot water tank must be filled with water before the heating on/off switch is turned on.

• Do not use the system on cold water supply line with less than 20 psi.

• Do not move the cooler if filled with water.



Setting Temperatures and Dispensing Water

1. Set the heating and cooling temperatures. Press the setup button on the front until the LCD display changes to the temperature set screen, then you may adjust the temperature for each to your desired level by pressing the hot/+ to raise the value and the cold/- to lower the value. Default values are: hot water 95°C, and cold water 8°C. When finished setting values, the unit will automatically go to normal operation after several seconds of no buttons being pushed.

2. Turn on the heating and cooling. To do this press the hot/+ button once to turn on heater, press the cold/- button to turn on cooling.

3. Water dispensing: To dispense hot water, press the silver unlock button then press the silver hot button. You will hear a beep and hot water will dispense from the left spout. Caution: The default temperature of the hot water will scald the skin. Press the silver hot button again and the hot dispensing will stop. To dispense cold water, press the silver cold button. The system will beep and cold water will dispense from the right spout. Press the silver cold button again and the cold dispensing will stop.

Accessing Internal parts

1. Turn off heating and cooling switches.
2. Shut off water supply to the system.
3. Drain water from drain ports on the back of system and unplug power cord.
4. Remove two screws attaching top to back of system.
5. Remove top of system and the top of holding reservoir.
6. Remove screws attaching back of system to the cabinet and remove holding reservoir.
7. Access is now available for most of the internal parts of the system for repair or replacement.

***Before you begin, read these instructions completely and carefully.**

• This water line installation is not warranted by the water cooler manufacturer. Follow these instructions carefully to minimize the risk of expensive water damage.

• Water hammering (water banging in the pipes) in house plumbing can cause damage to water cooler parts and lead to water leakage or flooding. Call a qualified plumber to

correct water hammering before installing the water supply line to the water cooler.

• To prevent burns and product damage, do not hook up the water cooler to the hot water line.

• Do not install the water cooler and/or water cooler tubing in areas where temperatures fall below 60ºF. When using any electrical device (such as a power drill) during installation, be sure the device is double insulated or grounded in a manner to prevent the hazard of electric shock, or is battery powered.

• All installations must be in accordance with local plumbing code requirements.

• Use copper or a Crystal Quest® tubing kit (1/4” outside diameter) to connect the water cooler to the water supply. If using copper, both ends of the tubing must be cut square.

• To determine how much tubing you need, measure the distance from the water valve on the back of the water cooler to the water supply pipe then add about 10” (25 cm) to allow the water cooler to move out from the wall after installation.

NOTE: The only Crystal Quest® approved poly tubing is that which is supplied in the Crystal Quest® water cooler tubing kit. Do not use any other plastic water supply line because the line is under pressure at all times. Certain types of plastic will crack or rupture with age and cause water damage to your location. Crystal Quest® accepts no liability for property damage.

NOTE: The hot tank switch should be in the “OFF” position before and during installation.

IMPORTANT – Save these instructions for local inspector's use.

IMPORTANT – Observe all governing codes and ordinances.

Note to Installer – Be sure to leave these instructions with the Consumer.

Note to Consumer – Keep these instructions for future reference.

Skill Level – Installation of this water cooler requires basic mechanical skills.

Proper installation is the responsibility of the installer.

Product failure due to improper installation is not covered under the warranty.

INSTALL WATER COOLER SYSTEM TO WATER SUPPLY

System Set-up and Preparation

CAUTION: Adjust the cold water supply line at the T-Valve (Fig 1) by slowly turning the handle to reduce flow to the system.

• Connect the water supply line tubing to the system access board labeled "water inlet". The system is shipped with a red cap; remove it before inserting the tube.

• Turn on the cold water supply line again. Make sure there is no leak at the connections. Recheck for water leaks.

• Plug the power cord into a receptacle outlet. Make sure the system is plugged into a 110 volt grounded outlet which contains
a fuse or circuit breaker of 20 amps.

• Turn the shut-off valve handle to the "ON" position to allow the cold water to flow through the system. Check that water flows through the cold faucet; water will not flow if electrical is not plugged in.

• Allow the water to flow through the system. Check all connections including the filters and all other tubing and fitting connections inside the system for possible leaks.

• Dispense the hot and cold water faucet/spouts and run water until water flows freely and there is no air in the lines. Be careful: water from hot faucet can scald your hands.

• Allow water to flow through the system to refill the cold and hot tanks.

• Flush filters/membrane.*

• Turn on the hot and cold tank switches.

• Do not use the first three reservoirs of water. These flush the system.
CAUTION: Flood stopper valve must be installed on the water cooler if the water cooler is installed in a high rise building.
• Recheck the system for water leaks.

Filters / RO Flushing Procedure

The following procedures will prepare the system to deliver the best possible drinking water.

1. Ensure that filters are installed, hot and cold switches are off, the system is plugged in, and the top of the cabinet and the reservoir lids are off.

2. Allow water flow to fill the reservoir and drain the system three times. Avoid water spills, and use a pan to catch the water from both drains.*

3. Refill the reservoir and cover cabinet by replacing lids. Turn both switches on after tanks are full.

4. Dispense two glasses of water from each faucet/spout to clear trapped air.

* Supply and check for leaks (Fig.2).

*** NOTE:** This drained water should be immediately disposed of properly (poured down a drain) to prevent accidental spilling, as this water will stain.

Installing with saddle valve.

A. Choose the valve location.

• Choose a location for the valve that is easily accessible. It is best to connect into the side of a vertical water pipe. When it is necessary to connect into a horizontal water pipe, make the connection to the top or side, rather than at the bottom, to avoid drawing off any sediment from the water pipe.

• Disconnect the cold water supply line.

Attach and tighten the saddle valve connector assembly, being careful not to pinch or crimp any tubing or water supply line while tightening.

Use Teflon® tape to ensure a tight fit (Fig 2).

NOTE: The saddle valve (Fig 2) clamps onto soft or hard tubing or pipe.

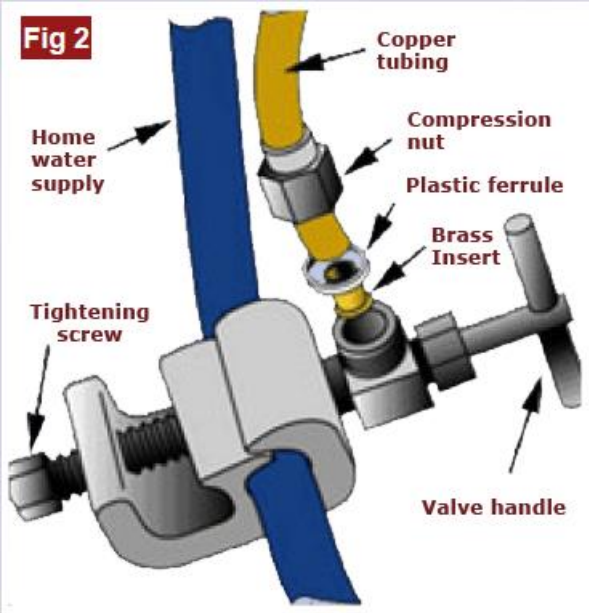
It will make its own hole in copper tubing but not in iron or brass. For brass or galvanized iron pipe, drill a ¼" hole in pipe before mounting saddle valve.

CAUTION: There is risk of electric shock.

If possible, use a hand or cordless drill when drilling into the water pipe. Be sure that drill, cord, and outlet are all properly grounded.

NOTE: Do not turn handle before installing or while installing saddle valve.

To prevent damage to piercing needle, make sure that piercing lance does not project beyond the rubber gasket.



C. Connect source water feed tubing to valve body using compression fitting.

1. Slide nut and sleeve onto tubing (in that order).
2. Install insert into plastic tubing.
3. Install tube with insert and sleeve into valve body.
4. Thread compression nut onto valve body. Tighten.
5. Turn saddle-tapping valve handle clockwise until it is firmly seated and piercing lance is fully extended.

CAUTION: Supply line is pierced and valve is closed. Do not open valve until system is activated.

NOTE: Leave handle in this position (valve closed) until filter installation is complete.

B. Assemble saddle-tapping valve assembly on tube.

1. Hold back plate against tube.
2. Hold saddle valve against tubing in a position directly opposite back plate.
3. Tighten screw so saddle valve and back plate are held securely against tube.
4. Tighten screw firmly. Do not crush tube.

Turn on cold water supply. Check saddle-tapping valve installation for leaks. Allow water to run from faucet for a few minutes to clear any debris in the line caused by installation.

NOTE: If flow from sink faucet is reduced, clean faucet aerator.

NOTE: Connect the water supply line tubing to the system access board labeled “water inlet.”

*The system is shipped with a red cap; remove it before inserting the tube.

SERVICE INFORMATION AND GUIDELINES

Servicing the Filters

1. Shut off water at the water supply line.
2. Turn off hot and cold water switches.
3. Unplug the cord from outlet.
4. Drain tubing completely.
5. Disconnect tube from filter.

CAUTION: HOT WATER WILL SCALD.

Changing Filter Cartridges

1. Loosen the connector fitting counterclockwise.
2. Pull the cartridge out of the main fold.
3. Wrap the connector fitting with Teflon® tape and connect it to a new cartridge.

Changing Reverse Osmosis Membrane (for RO Models only)

1. Loosen the connector fitting counterclockwise.
2. Remove the membrane housing cap by turning counterclockwise.
3. Remove the membrane with a pincer.
4. Insert the membrane by carefully pushing the spigot end into the socket at the far end of the housing until completely in.
5. Wrap the connector fitting with Teflon® tape and connect it to the tubing.

Authorized Distributor

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