Crysalli
Beverage Systems

Install Guide

UCM-SW Still Water Remote Dispenser System

CR-UCM-SW-BH Remote Chiller
with CBR or CM Series Towers

Register your
product online:

Crysalli Beverage Systems a division of WPD
1739 Sabre Street, Hayward, CA 94545
www.crysalli.com
510.732.0100
05192022

CR-KIT-SWUC Install Kit

Ordered Separately

Install Kit for UCM-SW and UCW units.

QTY		Description	Part Number	Usage
	1	3/8 Tube x 9/26-24 Female Adapter	PSEI6012U9	Quick connect fitting adaptor to an anglestop
	2	1/2” Tube to 3/4” NPT	PSEI02026	Adaptor reducers for filter system inlet and outlet
	2	5/8” (1/2”) Stem to 3/8” tube	PP062012W	Adaptor reducers for filter system inlet and outlet
	8	JG 90 elbow 3/8” smooth to 3/8”	PP221212W	For trunkline outlet of unit and water inlet
	1	JG U shape union 3/8” to 3/8”	PIUB12S	To complete water re-circ circuit from conduit
	2	JG two divider 3/8”	PP2312W	Optional use to split or reduce product water outlet
	12	JG 3/8 Locking Clips	PIC1812R	Collet locking clip for JG fittings
	2	JG 3/8” to 3/8”: union	PP0412W	Extra 3/8” push-in fitting union for adding water line
	4	JD Splice 3/8” Barb to 3/8” Smooth	PI251212S	Extra barb adaptors for connecting filter to inlet line
	1	Splice Barb 3/8” to 3/8”	9013	Use this fitting for adding additional drain line
	4	15.7 Oetiker Clamps	0157	For 3/8” drain hose and barb
	1	5’ Trunkline, 2 product, 2 red recirc	CR-4L38	To connect the draft tower to CR-UCM Chiller
	1	12’ Section of 3/8” OD tubing	PE-12-EI	Water inlet tubing, filter system to chiller
	1	6’ section of 3/8” ID clear BIB hose	200-0610X100 WPD	Additional drain line if needed
	1	Roll of Armaflex tape	1007	Insulation tape for wrapping conduit lines and tower
	1	2’ Sleeve of Armaflex	INSUL 1 3/8 x 1/2	Additional insulation wrap for conduit lines and tower
	4	15” Zip Ties	S-14043	
	6	8” Zip Ties	S-14041	

This Kit is designed to supply you with the fittings & parts you may need to complete the install of an CR-24FC Filter system to a Crysalli CR-UCM# still water chiller unit and a CBR-V2C or CBR-V1 dispensing tower with CR-4L38 trunkline.

This kit is supplied with 5’ of CR-4L38 trunkline unless a sepcified different total length is ordered, which you get instead.

The PP2312W Two Way Divider can be used to feed the split inlets of a CR-UCM2-SW-2 with one water line. As well as joining the product outlets from the trunkline into a single tower.

Note: The Crysalli CBR-V2C tower comes with 3/8 to 1/4 John Guest Union fittings for product line hook up. When installing a second CBR tower use the CBR2-FKM fitting kit (sold separately) which includes additional fittings for splicing in and hooking up a second tower.

Additional tools needed: Oetiker Crimper (part # 10258), sharp knife, tube cutter, wrenches, teflon tape and silicon.
Drill and 1.5” hole saw for drilling the tower mounting hole and 3/4” hole saw for DP-CT drip pan drain.
The CR-24FC filter system will require appropriate screws and anchors to mount to wall or cabinet.

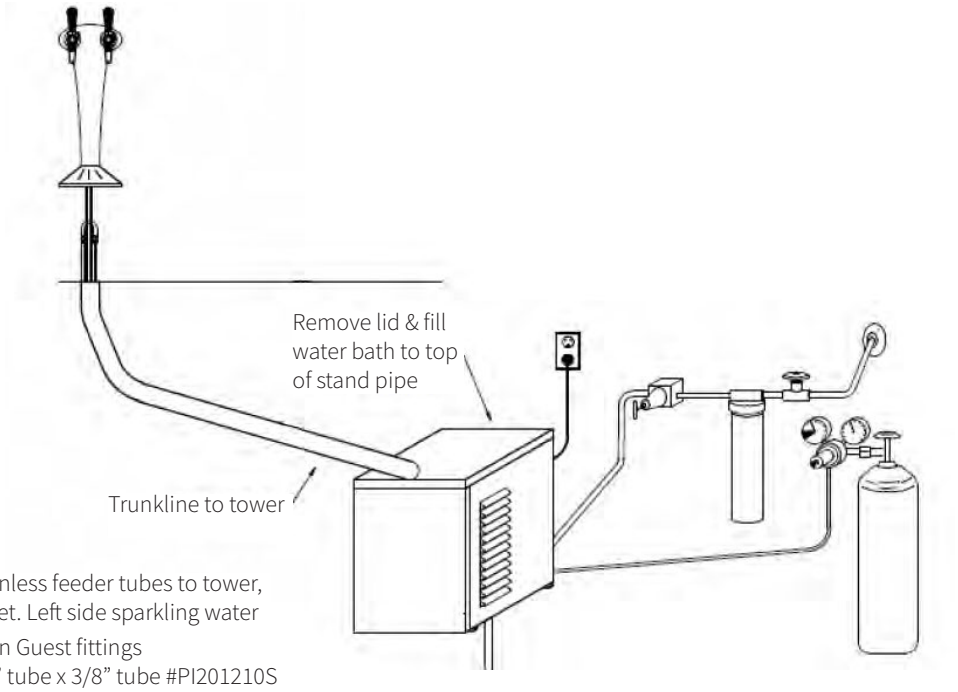
See Quick Install Guide for more install details.

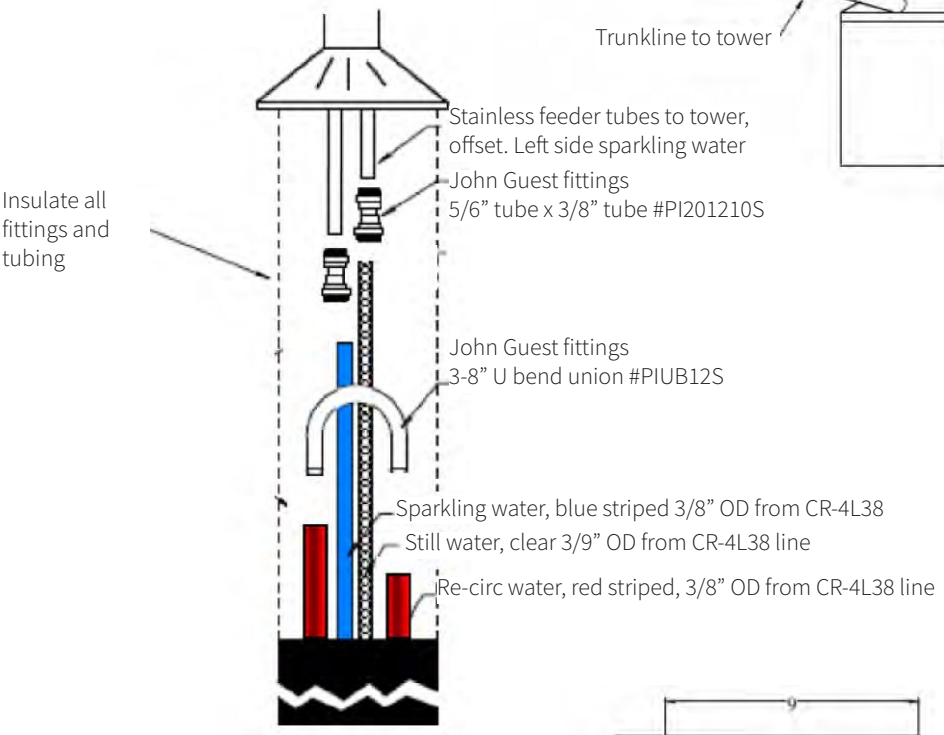
For questions or assistance with install contact Crysalli 510-732-0100 or your local Distributor.

CR-UCW Quick Installation Guide Instructions

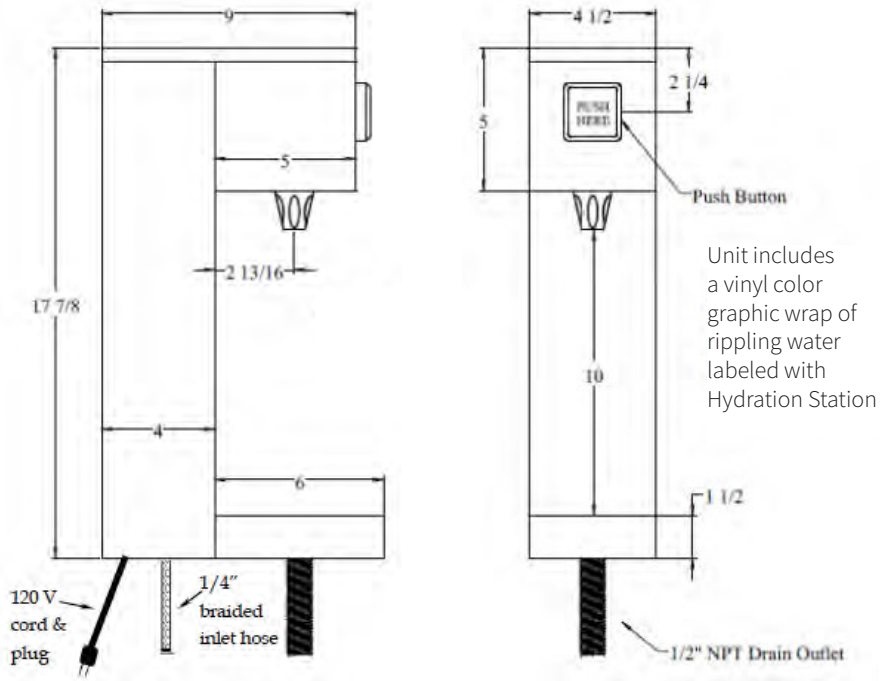
1. Select a counter location for your draft tower and an undercounter or remote location for your CR-UCW Crysalli unit. Place the CR-UCW unit as close as possible to water filter connection & 120-volt electrical outlet. Allow for good air ventilation and the evap side of the unit to face out, the unit will create heat and needs to have fresh air in and exhaust air out.
2. Mount the draft tower and drain pan or CM-1 push button tower. Plumb drain line from pan to the floor sink.
    a. CBR-V1 Requires a 1 3/8" hole.
    b. Drains Require ½" hole.
    c. The CM-1 Push button dispenser requires 120v to run the valve.
3. Outlet Connections: Measure and Route the insulated trunk line (if required) from the CR-UCW unit to the location of the dispensing tower. The unit has three 3/8" John Guest bulk head connection on it. The center is the product outlet, and two outside connections are the inlet and outlet re-circ line connections, (marked "re-circ").
4. Product Outlet: Connect a 3/8" line from the unit to the stainless steel lines on the CBR-V1 draft tower, or to the braded hose from the CM-1. Or adapt appropriately to dispenser inlet hook up.
5. Re-Circulation lines: Run the two re-circ line feeds from the unit up to the tower along with the product line, connect these two lines together at that point to create a continual loop with them from the unit and back. Flow these up as far as possible to the dispenser point of hook up. Cold water from the water bath will re-circulate through these lines to help keep the product line cold. If these lines are not going to be used they must still be capped or looped to each other at the bulk head fittings.
6. Inlet Connection: Connect the ¼" braided water inlet line from the bottom of the CR-UCW unit to your water filter system. When using the Everpure Filter system, you'll need to reduce down from the ¾" fpt inlet and outlet to accommodate your line size.
7. Drain: Rout Clear overflow drain line from the bottom of the unit to a floor sink or other waste drain. This is for overflow from the water bath.
8. Turn on the water. Check all connections for leaks.
9. Fill Water Bath: Remove lid and fill water bath with non-filtered tap water, fill up to ¼" from top of the white standpipe (this is the over flow pipe to the clear drain hose).
10. Plug unit power cord into 120-volt outlet. Toggle the on/off rocker switch to the "on" position. Fan and compressor will turn on. Fan and compressor will automatically turn off when a complete ice bank is made and cycle on and off to maintain it.
11. Check for leaks and wrap any exposed trunk line tubing with insulated foam tape.
12. Unit will take between 3 & 4 hours to make a complete ice bank.
13. Once unit has built the ice bank you are ready to dispense chilled still water.

Under Counter Chilled Water Dispenser Quick Installation Guide





CM-1 Push button dispenser tower detail



Unit includes a vinyl color graphic wrap of rippling water labeled with Hydration Station

Placing the UCM Remote Chiller

CR-ABUCM

CR-TFB1

CR-WMB2

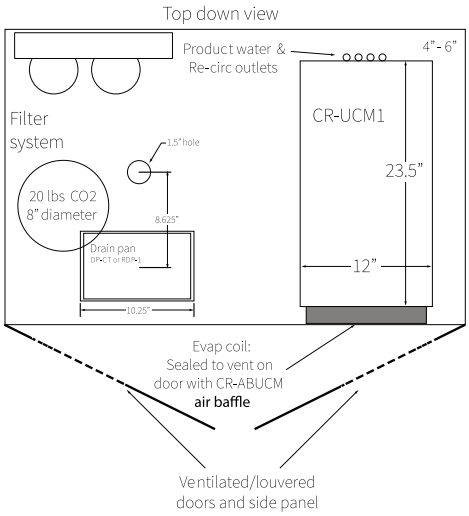
The CR-UCM Chillers generate a lot of heat when running, take all necessary measures to place it in an environment/space that allows for it to vent hot air out & away and pull in fresh, cool air. Failure to do so will void warranty and cause operational issues. Consider the CR-TFB1 thermostat fan to help vent hot air out.

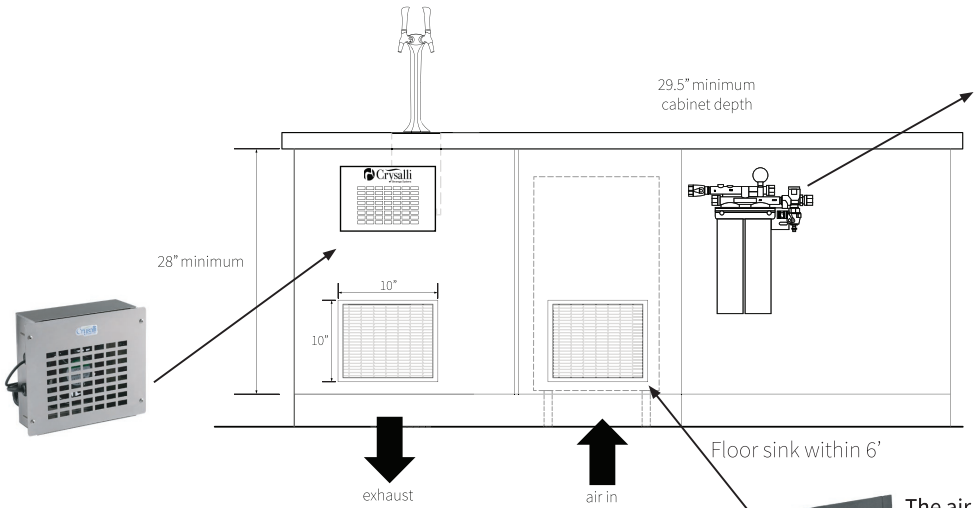
Place the CR-UCM Chiller so the front air filter is facing out or has the clearest path to breath air in, while being accessible for removal and cleaning. If using the CR-ABUCM Air Baffle assembly slide it over the air filter and position the unit so the baffle presses up to vent holes/louvers of the cabinet.

The unit will vent hot air out the sides (and back on the UCM2), leave at least one side free of obstructions and positioned so this hot air can vent out of the space.

The top of the unit will need about 8"of clearance so the lid can be removed and the water bath filled with water and inspected. *If going in a cabinet, avoid placing the unit directly under the CBR draft tower*, since you may not get enough clearance with the tower stem and lines protruding down.

If wall mounting the unit, appropriately anchor the wall mount bracket (CR-WMB1 or WMB2) to the wall/studs so it can support a minimum of 300 lbs. Remove the feet/ legs from the chiller and place it on the bracket, use the supplied 5/16-18 1" bolts to screw the unit to the bracket via the leg holes.





Crysalli filtration System part # CR-24FC

***Water filtration systems should be installed within 6' of the chiller

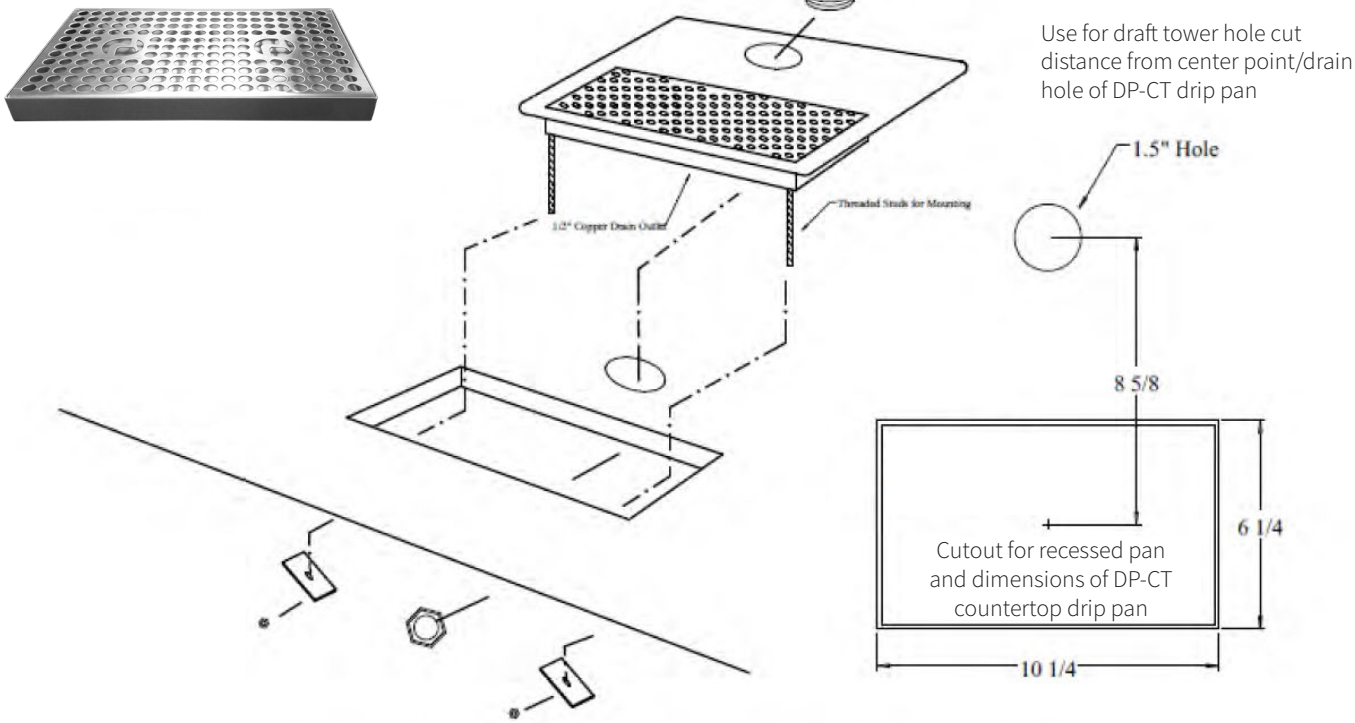
Air exhaust grill Min: 70 sq./in open space or 100 sq/in with 30% restrictions

Air intake grill Min: 50 sq./in open space or 70 sq/in with 30% restrictions

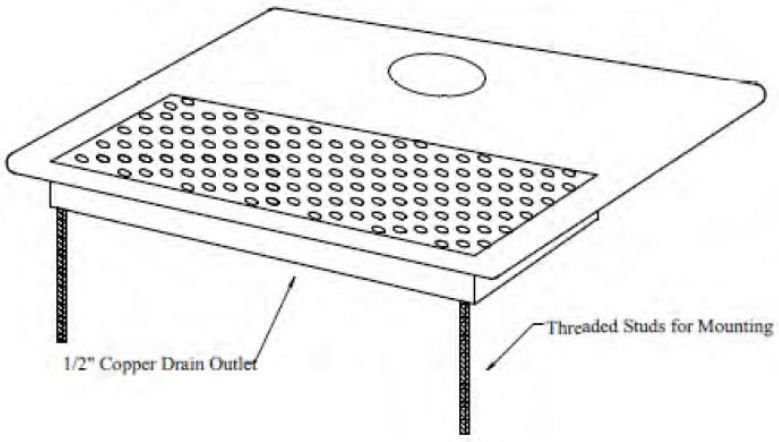
The air baffle, part # CR-ABUCM, minimizes recirculation of hot air

Air intake grill should mate up **directly with the air baffle gasket. Air baffle adds 2" depth**

Mounting the RDP-1SSQ Recessed Drain Pan with CBR-V1



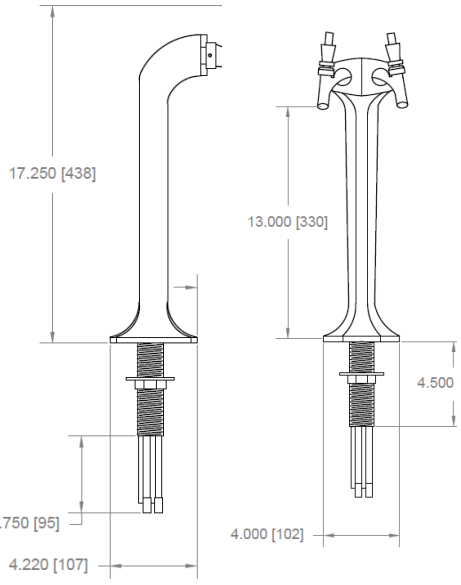
Tower: 15.5” tall. 12” from bottom of spout to pan.
Drip tray total: 12” wide x 15” deep



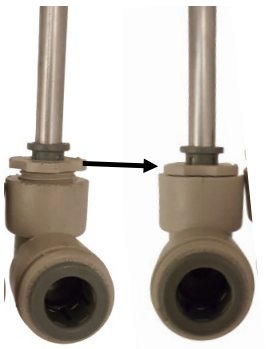
Mount and connecting the CBR towers

Step 1: Locate the box containing the tower for the system. A draft tower such as the CBR-V2C, CBR-V3C or LIT-V2C, are packaged with the faucet bodies and handles shipped loose, a faucet wrench, a set of SI030812S superseal fittings for the 1/4" stainless steel tubes on the tower, PP221212W plug in elbow fittings and instructions.

Step 2: Insert tower into the hole in the countertop for it, thread on and tightened the set nut to secure tower. Locate grey SI030812S superseal union elbow fittings supplied with the tower (one per tube). Loosen the collet nut on the fitting to the last thread then push the fitting onto the 1/4" stainless steel tube as shown on John Guest instruction page. Tighten the collet nut all the way down to lock fitting onto SS tube (failure to tighten the collet nut can result in a leak or the fitting slipping off). You will use the white plug-in elbow fittings to connect the product line from the trunkline to the tower. It is easiest to attach these fittings to the product tubes of the trunkline first (using the red locking clips), then connect them to the superseal fittings on the tower tubes (see "CR-4L38 Trunkline Tower End Connections" page).



SI030812S Superseal elbow, loosen collet nut, push into SS tube and tighten collet nut.



CR-4L38 Trunkline Tower End Connections

Step 1: Locate the CR-4L38 Trunkline. 5' will be included with the UCM install kit, unless a longer length was ordered. If a longer length is being used pull the line from the chiller to the tower, being careful not rip the pvc wrap and not to make any bends that kink the tubes. Leave enough length at both ends so connections can be made and the chiller can move for service. If installing 3-valve tower, the 3rd water line, ambient water, should be tee'd off the water filter outlet and fed over to the tower.

Trunkline: 3/4" foam insulation with a PVC exterior wrap.

Four 3/8" plastic barrier tubes, wrapped together.

Two-product tubes: blue striped & natural color.

Two re-circ tubes: red striped

Step 2: Cut back the insulation (or tubes) so 2.5"-3" of tubing is exposed.

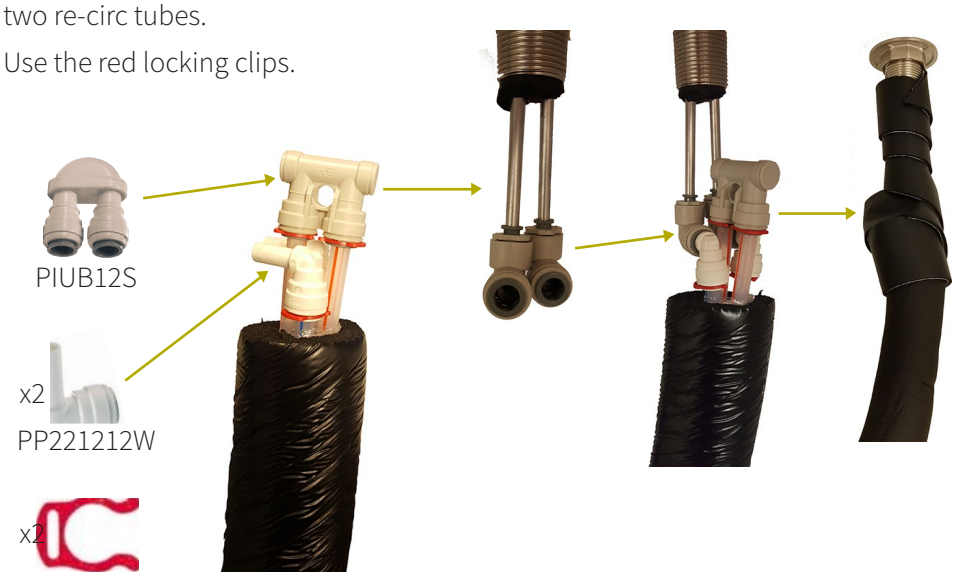
Cut the two product tubes (blue striped and natural color ones) back 1.5", so the red striped tubes extend past them at least 1.5".

Cut the tubes square and remove burrs and sharp edges. Make sure the red striped tubes are cut to the same height.

Step 3: Find the two white PP221212W plug in elbow fittings that come with the CBR Tower and connect them to the product tubes.

Find the grey PIUB12S u-bend fitting in the UCM install kit and connect it to the two re-circ tubes.

Use the red locking clips.



Step 4: Once assembled, connect the stem end of the plug in elbow fittings to the super seal fittings on the tower. Connect the blue striped tube to left faucet tube for sparkling water. Natural to still chilled water. If using a 3-valve tower, run a separate hose from the filter to the 3rd tube for ambient water. After testing the system for leaks, wrap all exposed hoses and fittings with the insulated tap found in the UCM install kit.

Mounting Faucets & Handles to Tower

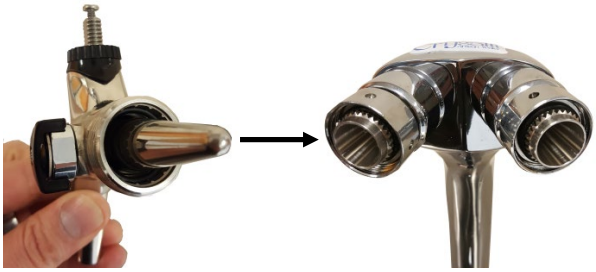
Locate the faucet bodies, handles and wrench.

The faucet bodies attach to the shanks that are pre-attached to the tower and leak tested.

When attaching the faucet body to the shank, be sure the faucet is properly aligned before tightening it down. Adjusting the faucet angle when attached to the shank can result in loosening the shank to tower connection which can cause a leak.

<u>Using the faucet wrench on the shank nut:</u>

- Counter-clockwise tightens the shank nut to the faucet body.
- Clockwise loosens it for removal.



Push faucet onto the shank

Angle the faucet body vertically straight

Set the faucet position, push back to lock in

Pull shank nut to faucet and hand tighten

Tighten shank nut with faucet wrench

Once the faucet bodies are attached to the tower, thread the handles on to the them. Thread down until the position the handle with curve is facing you, if loose, tighten the black set nut up to the handle base to lock the handle in position. Apply the round sparkling and still water image stickers to the appropriate handles at the top of them.

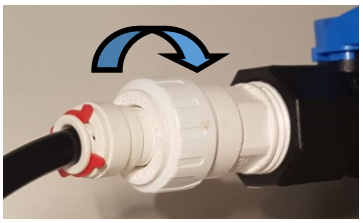
Installing the Water Filter System & Angle Stop Adaptor

PP062012W

PSEI012026

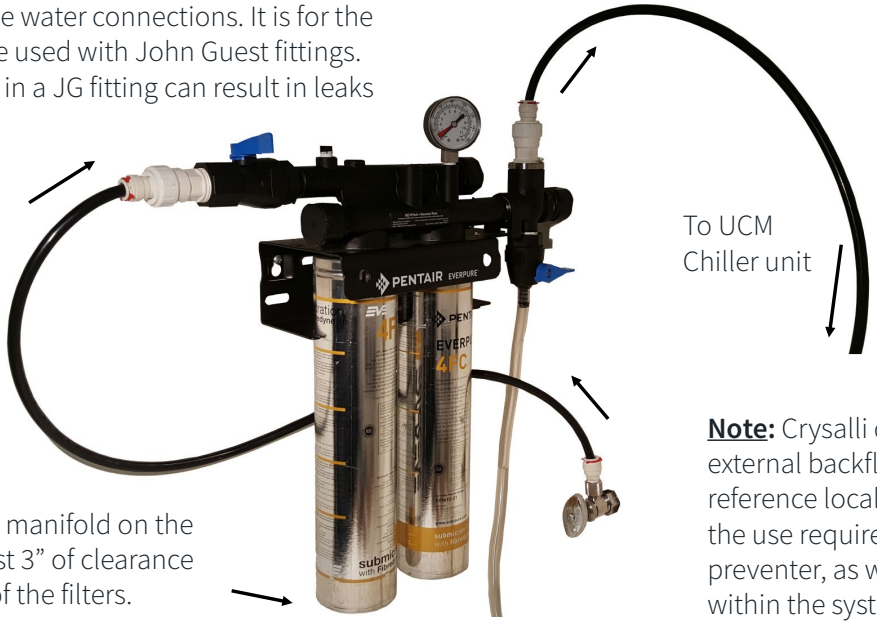
Locate the 2 PSEI012026 1/2” to 3/4” MPT fittings and PP062012W 5/8” stem to 3/8” tube adaptor fittings from the UCM Install Kit, along with 2 red locking clips. These are your inlet and outlet fittings for the twin water filter system. Wrap some Teflon tape around the threads of the 3/4” MPT fitting, attach them to the two ends of the filter manifold. Push the smaller adaptor fittings on to the larger fittings and twist lock the larger fittings collet. Push the blue 3/8” hose ends into these fittings and apply the red locking clip.

The UCM Install Kit comes with 12’ of the blue or black PE-12-EI tubing. Cut this to appropriate length for inlet and outlet plumbing needs.



Locate the PSEI6012U9 angle stop adaptor in the UCM Install Kit. Locate the angles stop water source feeding the system, remove the compression nut and ferule ring from it and replace with the PSEI6012U9 fitting.

Note: The Install Kit comes with a 1/4” white braided hose as well, this is not for the water connections. It is for the CO2 only and cannot be used with John Guest fittings. Using the braided hose in a JG fitting can result in leaks and flooding.



Mount the filter manifold on the wall with at least 3” of clearance at the bottom of the filters.

Note: Crysalli does not provide external backflow preventers. Always reference local plumbing codes for the use requirement of a backflow preventer, as well as type and location within the system.

Connecting the UCM Chiller

Step 1: Position the UCM unit so you can make the trunkline and water connections. Locate the 5 PP221212W elbow fittings from the UCM Install Kit. You will use these on the trunkline hoses to the upper outlets and the water in on the back of the chiller.

Step 2: Connect 1 of the PP221212W fittings and red locking clips to the water inlet hose from the water filter system; then, connect to the UCM Chiller water in.

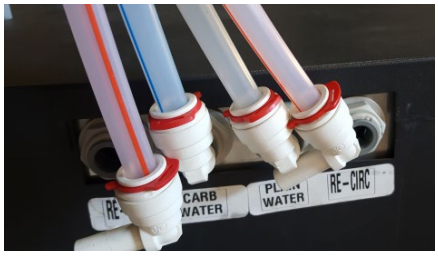
Step 3: Cut back 6”-8” of the insulation from the CR-4L38 trunkline to expose the 4 hoses. Cut the two product hoses a little less than 1/4” shorter than the re-circ hoses.

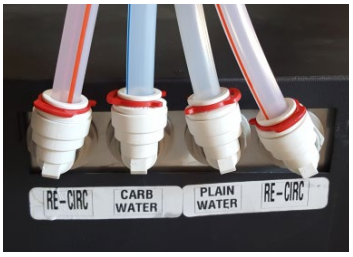
Connect 4 of the PP221212W fittings to the hoses, use the red locking clips on the hose to fitting connections.

x4 ea.

Step 4: Connect the hoses to the outlets:

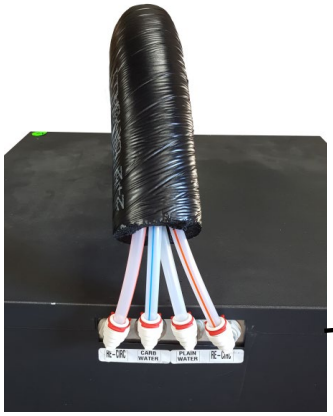
- Blue-striped hose the to the “CARB WATER”
- Natural hose to the “PLAIN WATER”
- The two red-striped hoses to the “RE-CIRC”





Step 5: If you are comfortable your connections are leak-free, wrap the exposed hoses and fittings with the insulated tape and push the unit in place.

CR-4L38 trunkline connected to a UCM Chiller



CR-UCM & CBR Tower Cleaning and Maintenance Recommendations

Daily:

- ☐ Wipe down the unit or draft tower, cleaning and drying all surfaces. (Use window cleaner on mirrored and chrome finishes).
- ☐ Clean and dry drain pan and drain grate. Check that water is draining, pour warm water down drain if necessary.
- ☐ Check over faucets for action and hand tighten any loosened handles or nuts on them. The set nut holding the handle down will loosen with use.
- ☐ Check flow from faucet, loosen, readjust and tighten flow control knob as needed.
- ☐ Check that flow, temperature and carbonation of water poured from the unit are consistent to average use.

Weekly:

- ☐ Clean the faucets by wiping them down. If there is any scale or slime submerge them in cleaners/ sanitizer and use a brush on them.
- ☐ Check CO2 level at CO2 tank.

Monthly:

- ☐ Clean the air filter. Remove it to brush down and wash off dust and dirt, then reattach.
- ☐ Check for good water pressure at the water filter system by running water from flush valve on filter.
- ☐ Visually check pre-filter in clear bowl on water filter system (if applicable) to determine if it needs replacing. Use only EPC5-10 replacement pre-filter cartridge.

Quarterly:

- ☐ Check the water bath level, either top off or drain, clean and refill.

Semianually:

- ☐ Change the water filters. Use only 4FC replacement filter cartridges.
- ☐ Drain water bath, clean and refill with new water.
- ☐ Remove and disassemble faucets for cleaning and inspection.

Annually:

- ☐ Inspect internal water bath components such as agitator/re-circ pump and blade, check valves for CO2 and water, and all hose connections.
- ☐ Flush and rinse system with food safe sanitizer (this work should be performed by a certified service tech).

Model Number:

Install Date:

Serial Number:

Installer/Servicer:

Scan for warranty:

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