



Install Guide

Still Water Remote Dispenser System CR-UCW-BH and CR-UCM2SW-2 Remote Chiller with CBR Towers



Register your
product online:



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-UCW/SW 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-V2-SSX or CBR-V1-SSX 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 towers come 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.

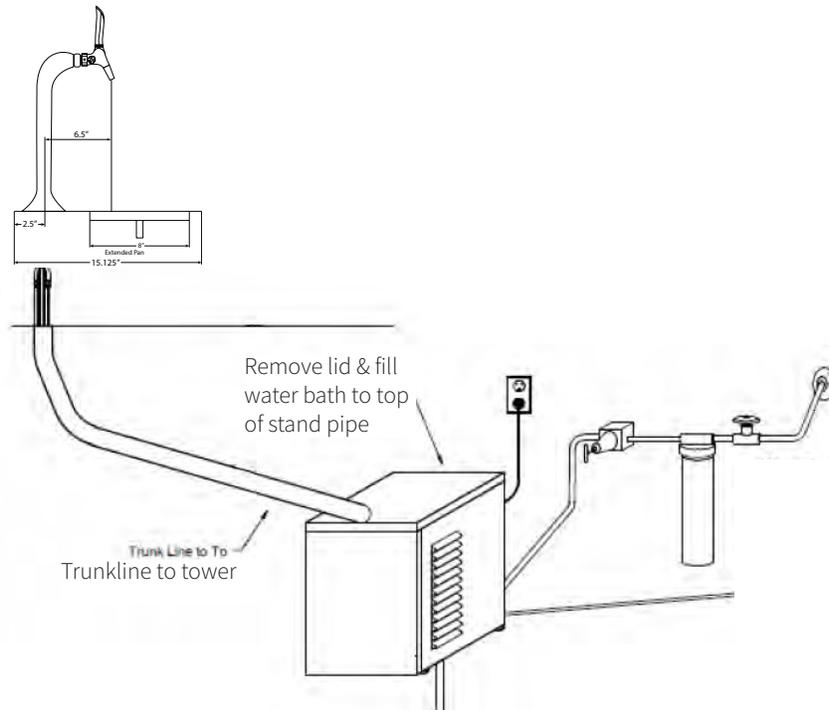
See Quick Install Guide for more install details.

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

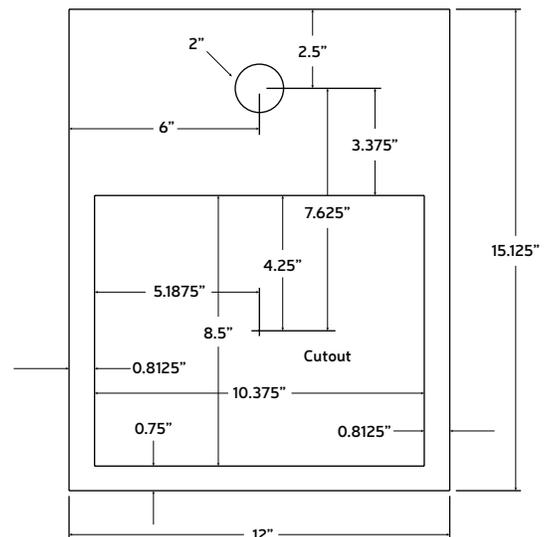
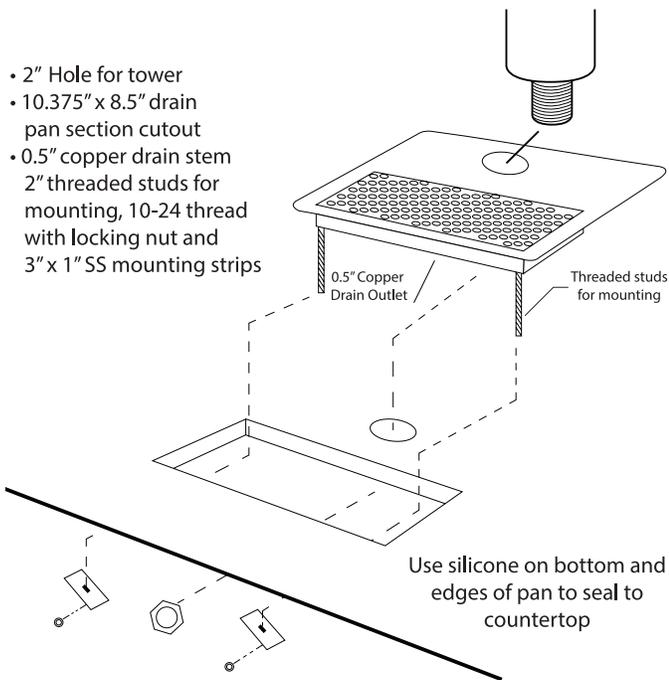
CR-UCW Quick Installation Guide Instructions

1. Locate the CR-UCW or CR-UC2SW-2 chiller, CR-KIT-SWUC install kit, CR-24FC water filter system, draft tower, drain pan, and any other accessories.
2. Placement: Select a counter location for your draft tower and a ventilated location for the remote CR-UCW or CR-UCM2SW-2 still water Crysalli chiller. Place the CR-UCW unit within 6' to water filter, 120-volt electrical outlet and floor sink drain. 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. See page 7.
3. Drain pan: Set and mount the drain pan. If using a recessed drain pan, make sure the counter is cut out per the details on page 4. Plumb drain line from pan to the floor sink, ½" copper drain stub. DP-CT drains require 3/4" hole.
4. Draft tower: Mount and assemble the draft tower. The CBR-V1-SSX tower requires a 1 3/8" hole in the counter. Place the gasket sticky side down first, secure the tower from the underside of the counter with the nut and connect the superseal John Guest fitting to SS tube from the tower. Attach faucet (see page 6). If using a different tower, refer those instructions.
5. Water filter: Mount the CR-24FC water filter system in the cabinet within 6' of the chiller and angle stop. Utilize the ¾" reducing fittings from the install kit for the inlet and outlet of the filter manifold and the angle stop adaptor fitting with the 3/8" tubing. Install the Leak Block device solenoid near the angle stop prior to the water filter inlet. Refer to page 8.
6. Chiller connections: Connect the water line from the filter to the inlet of the chiller. 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 bulkhead connections on it. The center is the product outlet, and the two outside connections are the inlet and outlet re-circ line connections (marked "re-circ"). Prep the trunkline with the fittings as indicated on Page 9.
7. Dispenser connection: Prep this trunkline end as indicated on page 10 for connection to the draft tower or faucet. Complete the re-circ loop with the U fitting and check it for leaks after the system is turned on before wrapping with insulation.
8. Drain line: Rout clear overflow drain line from the bottom of the unit to a floor sink or other waste drain. This is for overflow and condensation from the water bath.
9. Turn on the water. Check all connections for leaks.
10. 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 overflow pipe to the clear drain hose).
11. Power unit on: Plug the unit into dedicated 120-volt outlet (preferably a non-GFI outlet). Toggle the on/off rocker switch to the "on" position. Fan and compressor will turn on, recirc pump 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.
12. Check all connection fittings for leaks and wrap any exposed trunk line tubing and fittings at the chiller and draft tower ends with insulated foam tape.
13. Check the faucet for proper operation and flow. Adjust flow at faucet if needed, see page 11.
14. Unit will take between 3 & 4 hours to make a complete ice bank. Once unit has built the ice bank you will be dispensing ice cold still water.

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



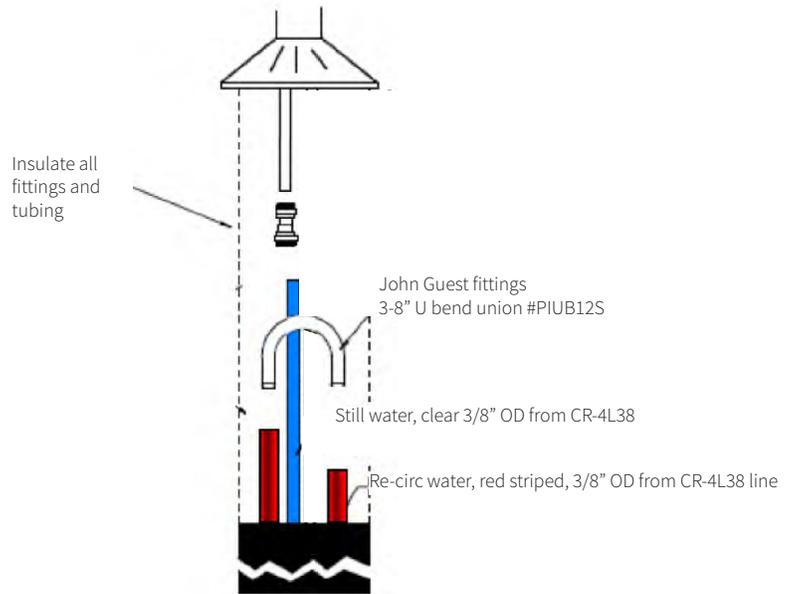
- 2" Hole for tower
- 10.375" x 8.5" drain pan section cutout
- 0.5" copper drain stem
- 2" threaded studs for mounting, 10-24 thread with locking nut and 3" x 1" SS mounting strips



Mount and connecting the CBR towers



Step 1: Locate the box containing the tower for the system. A draft tower such as the CBR-V1C-SSX, 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.

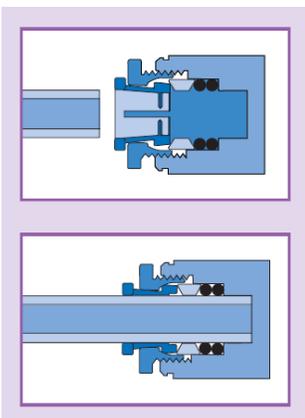


Step 2: Place gasket sticky side down on then insert tower into the hole in the countertop for it, thread on and tightened the set nut to secure tower. Locate grey SI030812S superseal union elbow fittings supplied with the tower (one per tube). Loosen the collet nut on the fitting to the last thread 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

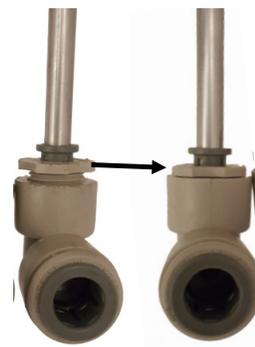
onto SS tube (failure to tighten the collet nut can result in a leak or the fitting slipping off). You will use the white plug-in elbow fittings to connect the product line from the trunkline to the tower. It is easiest to attach these fittings to the product tubes of the trunkline first (using the red locking clips), then connect them to the superseal fittings on the tower tubes (see "CR-4L38 Trunkline Tower End Connections" page).

Inch Superseal Fittings

For use with Stainless Steel Tubing



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



Mounting Faucets & Handles to Tower

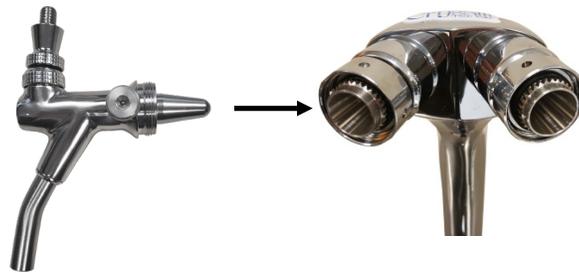
Locate the faucet bodies, handles and wrench.

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.

Using the faucet wrench on the shank nut:

- 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.

Placing the UCW Remote Chiller



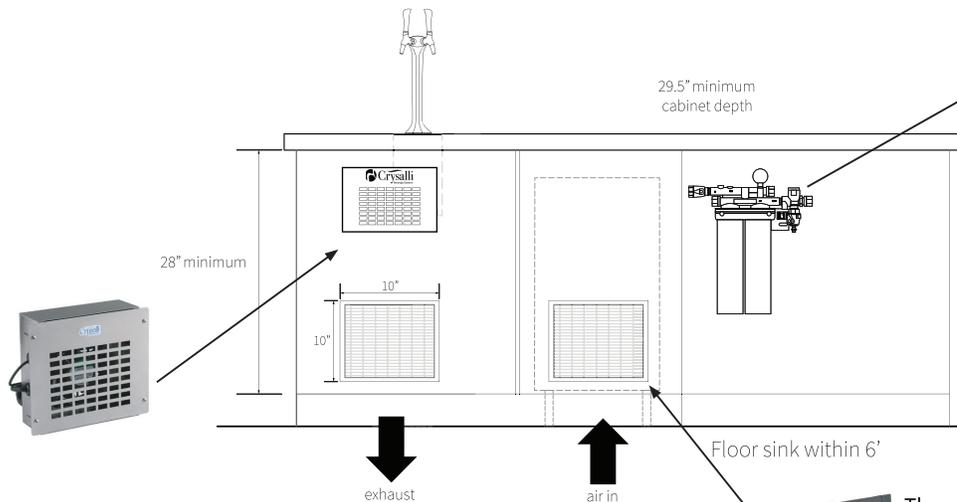
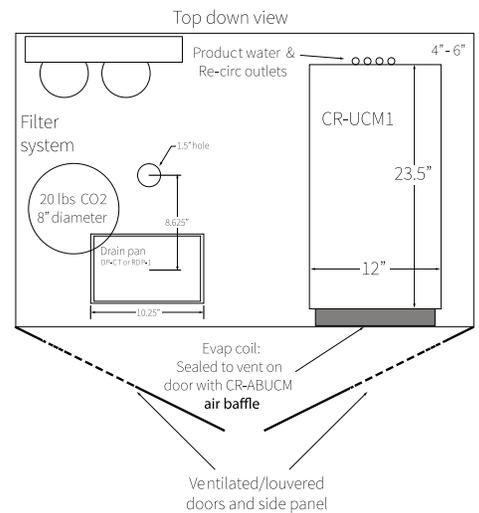
The CR-UCW Chillers generate a lot of heat when running, take all necessary measures to place it in an environment/space that allows for it to vent hot air out & away and pull in fresh, cool air. Failure to do so will void warranty and cause operational issues. Consider the CR-TFB1 thermostat fan to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

Place the CR-UCW 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

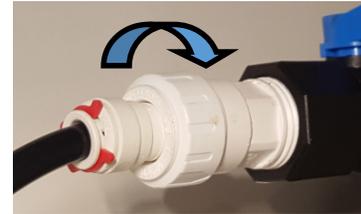
Air intake grill Min: 50 sq./in open space or 70 sq./in with 30% restrictions

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

Installing the Water Filter System & Angle Stop Adaptor

Locate the 2 PSEI012026 1/2" to 3/4" MPT fittings and PP062012W 5/8" stem to 3/8" tube adaptor fittings from the UCW/SW 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.

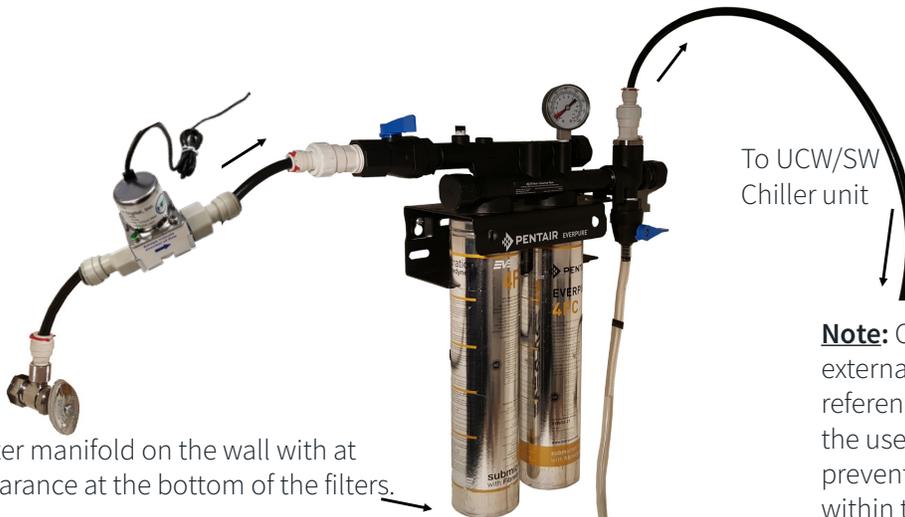
The UCW/SW Install Kit comes with 12' of the blue or black PE-12-EI tubing. Cut this to appropriate length for inlet and outlet plumbing needs.



Locate the PSEI6012U9 angle stop adaptor in the UCW/SW 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.

Leak Block Sensor, LBS10JG:

1. Install the 3/8" fittings to the solenoid valve inlet and outlet ends. The thread of solenoid valve is 1/2" BSP male. Then connect a 3/8" OD tube from the angle stop to the inlet fitting on the solenoid valve (indicated by position of the arrow). Then connect a 3/8" OD tube from the outlet end of the solenoid to the water filtersystem that is feeding your Crysalli unit.
2. Put the 9V battery in the control unit and activate it by holding the check/reset button for 4 seconds (see operation instructions for more details).
3. Place the control unit next to your Crysalli unit, ideally between the filter system and chiller.



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.

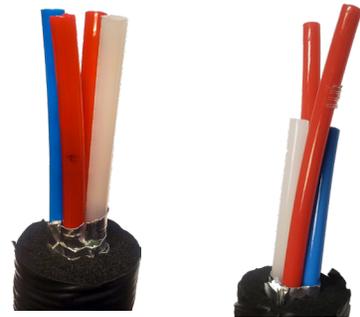
Connecting the UCW Chiller

Step 1: Position the UCW unit so you can make the trunkline and water connections. Locate the 4 PP221212W elbow fittings from the UCW Install Kit. You will use these on the trunkline hoses to the upper outlets and the water inlet 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 UCW chiller water in.

Step 3: Cut back 6"-8" of the insulation from the CR-4L38 trunkline to expose the 4 hoses. Cut the blue and white hoses 2" shorter than the re-circ hoses.



Step 4: Connect the JG two way divider fitting to the Blue and White hose. Then take on of the 2" cut pieces and connect it to the single outlet side of the fitting. Trim back the product hose to match the length of the red recirc hoses.



Step 5: Connect the three JG elbow fittings to the ends of the two red recirc and one product hose. Add the red clips to all the hose to fitting connections.



Step 6: Connect the assembled trunkline with fittings to the outlet bulkhead fittings of the chiller:

- The single outlet to the PLAIN WATER.
- The two red-striped hoses to the "RE-CIRC"
- When installing a CR-UCM2SW-2 chiller, utilize both PLAIN WATER outlets, by connecting the blue tube to one and white to the other rather than splicing them together.

Step 7: 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
UCW Chiller



CR-4L38 Trunkline Tower End Connections

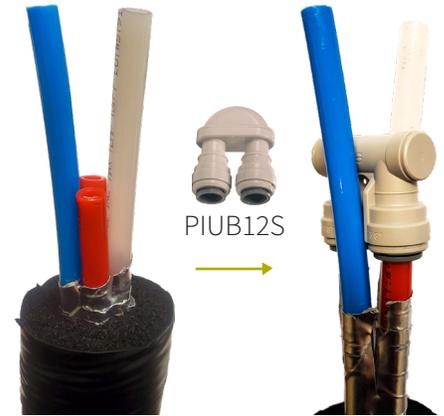
Step 1: Locate the CR-4L38 Trunkline. 5' will be included with the UCW install kit, unless a longer length was ordered. If a longer length is being used pull the line from the chiller to the tower, being careful not rip the pvc wrap and not to make any bends that kink the tubes. Leave enough length at both ends so connections can be made and the chiller can move for service.



Trunkline: 3/4" foam insulation with foil wrap and a PVC exterior wrap.
Four 3/8" plastic barrier tubes, wrapped together.
Two-product tubes: blue & white color.
Two re-circ tubes: red color.

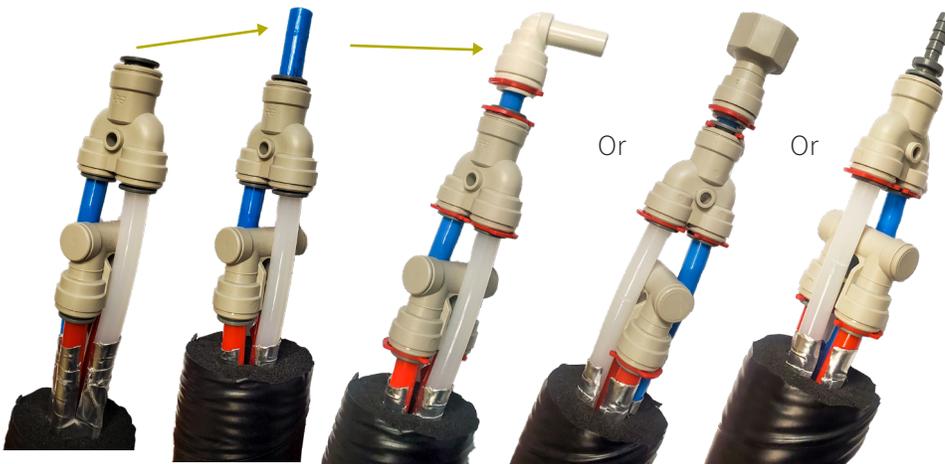
Step 2: Cut back the insulation so 6" of tubing is exposed.

Then Cut the two red recirc tubes back 2". Locate the PIUB12S U Bend fitting and connect it to the red tubes.



Step 3: Find the PP2312W Two-way divider and connect it to the blue and white product hoses. With a spare 2" piece of tube from the cut on the other end connect to the single outlet and then use appropriate fitting to connect to the draft tower or faucet you have. Then put the red locking clips in the fittings.

Step 4: Once assembled, connect the stem end of the plug in elbow fittings to the super seal fitting on the tower. After testing the system for leaks, wrap all exposed hoses and fittings with the insulated tap found in the install kit.



PP221212W
Elbow fitting for
CBR Towers

PI451214FS1/2"
FPT thread
fitting for Fisher
or T&S faucet

PI251212S3/8"
Barb end
for other
connections



x6  Use the red locking clips on all tube connections

Filling Water Bath

Route the clear over flow water bath drain hose from the back of the unit to a floor sink or floor drain.

The water bath must be filled with water for the system to work and build an ice bank. This water is not used for consumption, it is only used to form an

ice bank around the refrigeration coils and chill the water flowing through the water cooling coils. Water will drain from the over flow hose upon initial start up as the ice bank forms. After that only periodic condensation may drip from the over flow hose.

Remove the lid of the chiller to expose the water bath area. Fill this area with water (preferably non-filtered) up to the white stand pipe, covering the carb tank, water coils and refrigeration coils.

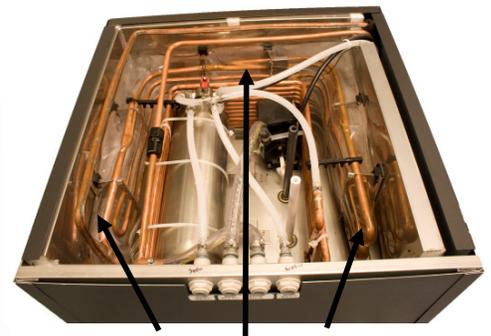
CR-UCM1

Fill with 4 gallons of water or up to the white stand pipe



CR-UCM2

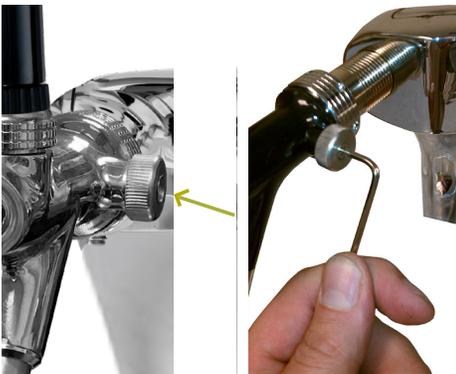
Fill with 6 gallons of water or up to the white stand pipe



✓ CR-UCM2 ice formation around ref coils

Water Flow Adjustment of Faucet

Upon start up of the system, the CR-SSX0101-HEX Faucets used on the CBR-V1-SSX, CBR-V2-SSX, and CBR-V3-SSX dispensing towers will need the flow rate adjusted and set.



The faucets come equipped with a flow control valve on each of them. This valve is located on the right side of each faucet. It is designed to adjust and set the flow using a 2.5mm Allen wrench (supplied with tower). Flow is typically set based on the cup size. Adjustments should be made while the faucet handle is held open and water is flowing, to visually see the flow setting. Also, it is advised to fill into the glass or carafe you will typically be filling to judge the fill time

and minimize splashing. The slower you can set the flow of sparkling water the better the bubble profile. Once set, tighten the outer ring nut to help keep it tight and prevent it from being loosened by hand. Hand tighten, then rotate an additional 1/4 turn clockwise with a wrench. The valve may need to be adjusted periodically. Leave the supplied 2.5mm Allen wrench with the staff along with the faucet wrench and this owners manual.



UCW/SW Models & 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/Service:

Scan for
warranty:

