



CT Install Guide
Sparkling & Still Countertop Chiller Systems
CR-1, CR-1PB,
&
CR-2, CR-2PB





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Countertop Series Start-up and Install Check List



Start-up Sequence:

- Turn Water on to unit (confirm flow from faucets)
- Plug unit in and toggle On/Off switch to the On position.
- Turn CO2 on at tank, (carb tank may need to be bled)

Notes:

Water Filters, CR-24FC and CR-24FCP

- Water On. Filters flushed via the flush valve and flowing water.
- Water pressure at/through water filter system above 50 psi and not dropping off.
- All connections leak free.
- 50 PSI water reducer valve installed after water filter, pointing in the correct direction.



CO2

- CO2 hose from unit: flare nut connection on end of CO2 Hose tight to CR-3741 CO2 Regulator (Be sure to use nylon washer supplied with Reg in fitting in the flare nut).
- CO2 Reg connected to CO2 tank (card board/plastic washer used) tight and leak free.
- CO2 Tank Full, Opened all the way and Set to 75 PSI.















Countertop Chiller:

- Faucets tight and positioned vertically. Handles tight and positioned front facing.
- Water Bath filled with water up to the white stand pipe.
- Unit On and plugged into a dedicated 120V outlet.
- Ice Bank formed/forming on refrigeration coils in water bath. Unit cycling on and off properly to maintain ice bank. Unit will take 2 hours to form full ice bank after initial start-up.
- Sparkling water; cold, carbonated. Tastes clean and pure. Adjust flow control on faucet to slow flow rate.
- Run a few liters of sparkling water, is carb pump cycling on and flow consistent without gassing out. Carb pump will cycle on after 1.5 liters of Sparking water is poured. Carb pump should run for 7-14 seconds.
- Still Water: cold and consistent flow. Tastes clean and pure. Adjust flow control on faucet to needs.
- Check clearances; Unit should be able to ventilate hot air out sides and breath fresh air in the back. Unit free of obstructions around it and can vent.
- Air Filter in rear of machine is accessible
- Water Inlet connection to unit leak free and not pinched off anywhere
- Agitator pump agitating bath water and pumping re-circ water through the trunkline.





CR-KIT-CT Itemized Content

QTY	Description		Usage
1	 90 3/8" smooth to 3/8"	PP221212W	Bottom Water Inlet fitting connection adaptor.
1	 3/8 Tube x 9/26-24 Female Adapter	PSEI6012U9	quick connect fitting adaptor to the the anglestop
2	 1/2" Tube to 3/4" MPT	PSEI02026	adaptor reducers for filter system inlet and outlet
2	 5/8" Stem to 3/8" tube adaptor,	PP062012W	adaptor reducers for filter system inlet and outlet
1	 12' section of 3/8 OD hose	PE-12-EI	water inlet hose
1	 Water Pressure reducer valve, 50 psi	183-150-NF	for use after the filter to regulate water pressure to 50 psi
2	 JG 1/2" mpt to 3/8"	PI451214FS	JG fittings for inlet and outlet of water regulator
8	 Collet Locking Clips	PIC1812R	Locking clips for JG fittings
8	 8' sections of 1/4" ID braided hose		for Additional CO2 hose length if needed
1	 Splice Barb 1/4" to 1/4"	19-0075	to splice in additional 1/4" CO2 Hose
4	 10.5 Oetiker Clamps	10.5-706R	to clamp 1/4" barb on additional CO2 hose
2	 8" Zip Ties		

This Kit is designed to supply you with the fittings & parts you may need to complete the install of our CR-1 or CR-2 to the CR-24FC Filter system with 3/4" inlet and outlet fittings. This Kit is sold as an Accessory item to the chiller.

Reference the Crysalii Countertop system Quick Install Guide for part usage and install details

Connections: The Water Inlet is the 3/8" Quick Connect fitting on the bottom of the chiller.

The Clear hose is the overflow Drain hose

The 1/4" White Braided Hose with fitting is the CO2 inlet. The CR-3741 CO2 Regulator connects to this.

- * Always reference local plumbing codes to determine if a Back Flow Preventer is required and to check the type/style of back flow preventer that is accepted as well as the plumbing location it needs to be placed in. Crysalii does not include Back Flow Preventors in the install kits because of variability in requirements. Back Flow Devices should be sourced from local plumbing stores.

MAKING A GOOD CONNECTION:

To make a connection, the tube is simply pushed in by hand; the unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting flow.



CUT THE TUBE SQUARE



Cut the tube square and remove burrs and sharp edges. Ensure that the outside diameter is free from score marks. For soft or thin-walled plastic tubing we recommend the use of a tube insert.

PUSH UP TO TUBE STOP



Push the tube into the fitting and up to the tube stop.

PULL TO CHECK SECURE



Pull on the tube to check that it is secure. Test the system before use.

TO DISCONNECT Push in collet and remove tube



To disconnect, ensure that the system is depressurized, push the collet square against the fitting. With the collet held in this position the tube can be removed.

CR-1 & CR-2 Countertop Chilled Sparkling Water Dispenser

Quick Installation Guide Instructions

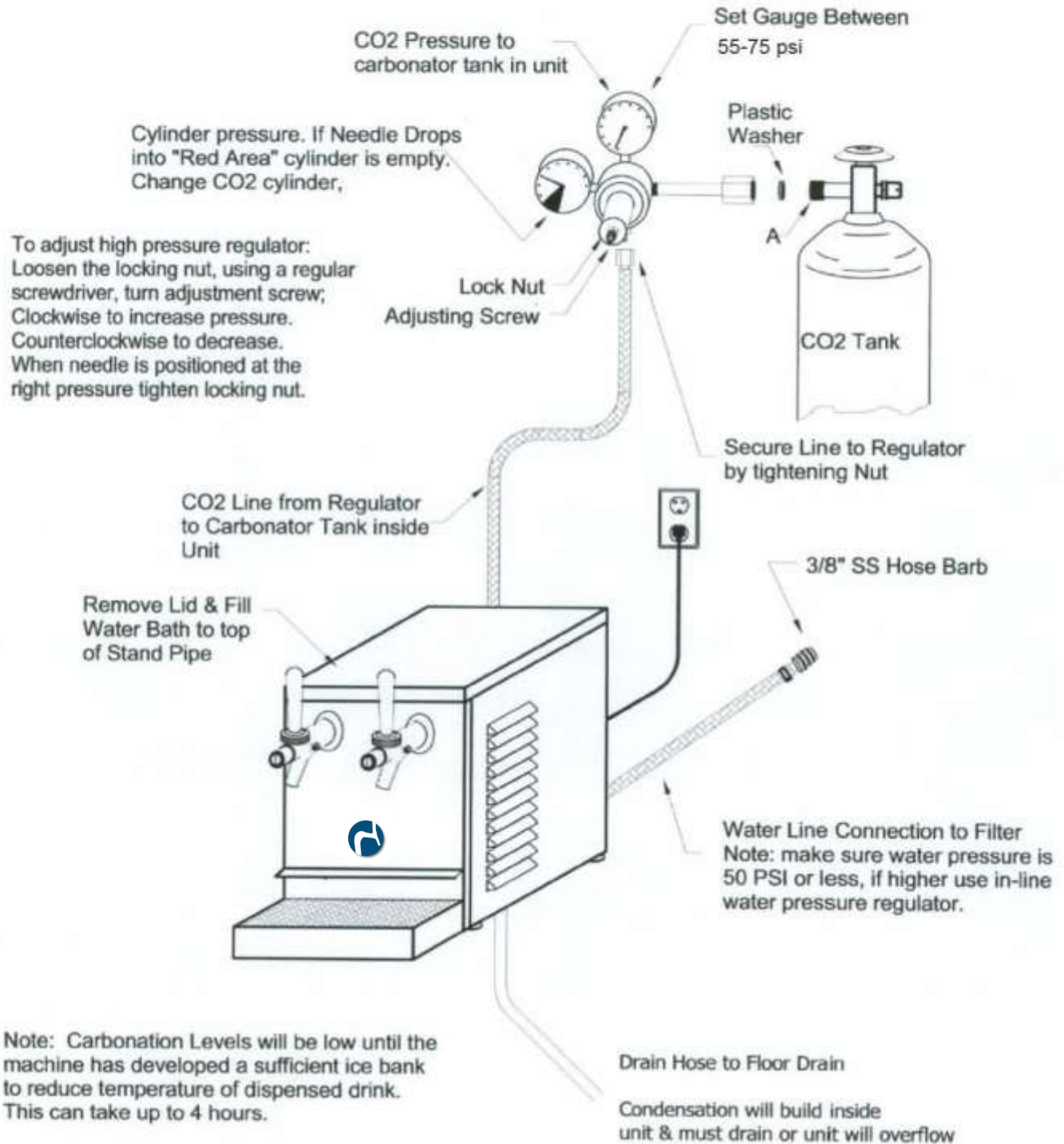
1. Select a location for your chilled water dispenser keeping in mind the unit needs air space behind it and to the sides. Place unit within 6' of water filter connection & 120-volt electrical outlet. Make consideration for proximity of a floor sink for the overflow drain hose.
2. Locate the CR-KIT-CT install kit and unpackage and take note of the fittings, water regulator and hose supplied to complete the install.
3. Locate the CR-24FC water filter system head and filter cartridges. Mount the Water Filter System in an accessible location with at least 3" of space below the filters for service. The Filter system has a $\frac{3}{4}$ " fpt inlet and outlet, locate the adaptor fittings in the install kit to reduce down to $\frac{3}{8}$ " (PSEI02026 $\frac{1}{2}$ " tube to $\frac{3}{4}$ " mpt, and PP062012W reducer $\frac{5}{8}$ stem to $\frac{3}{8}$ tube). Locate the PE-12-EI, 12' role of $\frac{3}{8}$ " OD hose. This hose should be used for the inlet and outlet of the filter system and to feed into the inlet of the chiller.
4. Locate the PSEI6012U9 $\frac{3}{8}$ " Anglestop adaptor fitting from the install kit. This fitting replaces the compression nut and ferule ring on the angle stop and is meant to be hand tightened to the angle stop outlet so you have a $\frac{3}{8}$ " quick connect fitting outlet to the filter system. Measure and cut a length $\frac{3}{8}$ OD hose to connect from the angle stop to the inlet of the filter system.
5. Locate the 183-150-NF Shurflo 50 psi water pressure reducer valve and the two PI451214FS $\frac{1}{2}$ " mpt to $\frac{3}{8}$ tube fittings for it. Thread the fittings on the valve. Measure and cut the appropriate length of $\frac{3}{8}$ " hose from the filter to the chiller, and splice this reg into that line. Install this 50 PSI Reducer to the outlet side of the filter system, feeding into the chiller. The reducer valve is directional, make sure the arrows point in the direction of the water flow. Consult local plumbing codes for use and requirements of a Back Flow device.
6. The water inlet for the chiller is a $\frac{3}{8}$ quick connect push-in fitting, located on the bottom base of the unit near the front legs. Connect the end of $\frac{3}{8}$ " hose from the water filter system and water reg to the PP221212W 90 $\frac{3}{8}$ tube to $\frac{3}{8}$ stem fitting and connect that fitting into the inlet of the chiller.
7. Locate the 8"x8" box for CR-3741 *High Pressure CO2 regulator*. Unbox this regulator and locate the $\frac{1}{4}$ " nylon washer taped to the packaging. The 8' length of $\frac{1}{4}$ " white braided hose extending out the base of the chiller is the CO2 hose. It has a stainless-steel flare nut on the end. Rout this hose to the location of the CO2 tank. If extra length is required locate the 6' of $\frac{1}{4}$ " hose,



- 7 cont: ¼" barb union and 9.5 Oetiker clamps from the install kit and splice the line in. The ¼" nylon washer should be inserted into the SS flare nut fitting at the end of the hose and then connect to the CO2 Regulator.
 8. The clear hose coming out the bottom of the chiller is overflow water bath drain hose. It is best to run this hose to a floor drain or other waste drain. You will get some draining from this hose during the install start-up of the chiller as the water bath freezes an ice bank.
 9. Turn on Water at the filter system and flush the water filters of air via the flush valve on the filter system. Check for leaks.
 10. Fill Water Bath: Remove lid and fill water bath with non-filtered/non-softened tap water, fill up no less than ¼" to top of white standpipe. This is the vertical white tube in the water bath that is connected to the clear overflow hose.
 11. 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.
 12. Unit will take between 3 & 4 hours to make a complete ice bank. 1/3 of the water bath should freeze over the refrigeration coils to form a block of ice. On the CR-1 models the ice bank forms along the right side of the bath. On the CR-2 models the ice bank forms a "n" shape around the outside edges of the bath.
 13. Open CO2 at the CO2 tank by turning knob on tank counterclockwise. Adjust regulator via the set screw on the front between 55-75 PSI. And check for leaks.
 14. Pull open the still water and sparkling water faucets to run water through the system. You will need to run the sparkling water faucet for several minutes to cycle the carbonation system before full sparkling water will dispense.
 15. Once unit has built the ice bank you are ready to dispense chilled still and sparkling water. Adjust the flow control handles on the faucets for your preferred flow rate.
- CR-KIT-CT** Install Kit includes fitting, 3/8 OD hose, 50 PSI water pressure regulator and other items for install ease.
- CR-3741** High Pressure CO2 Regulator 0-130 psi. The CO2 tank must be sourced locally.

***Owner's Manual and Warranty Registration can be found on line
www.crysalli.com***

Chilled Water Dispenser Quick Installation Guide



Installing the Water filter system, Water Regulator and Angle Stop Adaptor.



Locate the 2 PSEI012026 1/2" to 3/4" NPT fittings and PP062012W 5/8 Stem to 3/8 tube adaptor fittings from the UCM Install Kit. These are your inlet and outlet fittings for the Twin Water filter system. Wrap some Teflon tape around the threads of the 3/4" NPT fitting, attach them to the two ends of the filter manifold. Push the smaller adaptor fittings in to the larger fittings and twist lock the larger fittings collet.

PP062012W

PSEI012026



Mount the Filter manifold on the wall with at least 3" of clearance at the bottom of the filters.

Locate the 183-150-NF 50 PSI Water regulator and two PI451214FS fittings from the UCM install kit. Attach the Fittings to inlet and outlet of the Reg. Install Reg with Arrows pointing to the UCM unit

PI451214FS

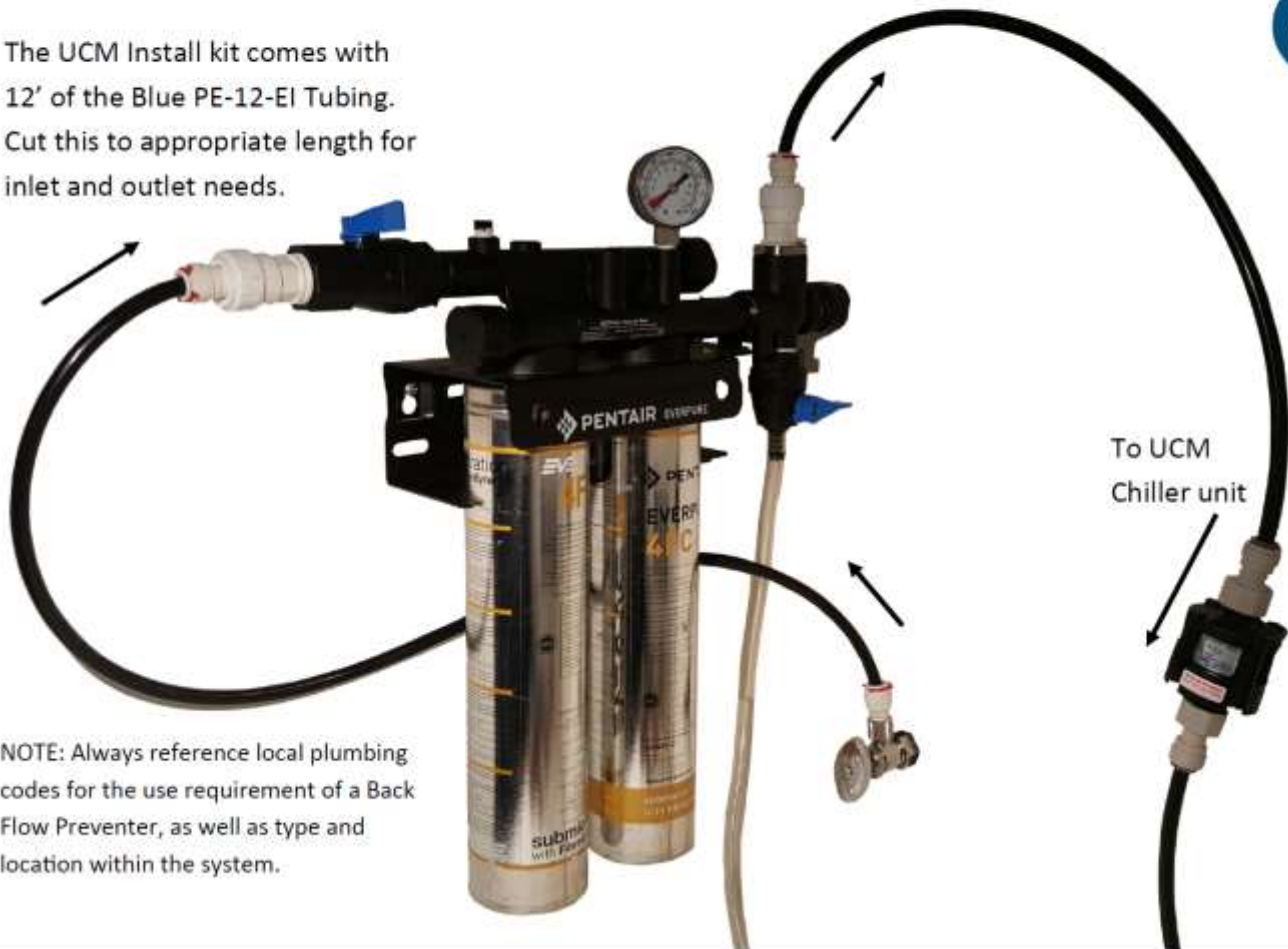
183-150-NF



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.



The UCM Install kit comes with 12' of the Blue PE-12-EI Tubing. Cut this to appropriate length for inlet and outlet needs.



NOTE: Always reference local plumbing codes for the use requirement of a Back Flow Preventer, as well as type and location within the system.

To UCM Chiller unit

Water Inlet Connection:

Locate the PP221212W elbow 3/8 hose to tube fitting and a red locking clip. Connect this fitting to the end of 3/8" hose from the filter system and water reg. Then connect this to the water inlet on the Chiller.



Water Inlet connection: 3/8" push-in hose connection.

Located at the base of the chiller, near the front, next to the 1/4" Braided CO2 hose, 3/8" clear overflow drain hose and 9' electrical cord.



Push tube end of fitting into water inlet connection on the chiller



From water filter and pressure reg.





Connecting CO2 and Filling Water Bath



The Hose for the CO2 connection is 6' long, 1/4" Braided Hose with a 1/4" flare nut on the end extending out from the chiller near the water inlet. Route this hose to the location of the CO2 tank. If additional hose is required, the UCM install kit comes with an additional 8' of 1/4" Braided hose*, a 1/4" Barb Union and 10.5 Oetiker Clamps to extend it.

*Warning: do not use this extra 1/4" Braided hose with John Guest fittings for the water inlet or water filter connection, it is not the correct OD or tube type work with these fittings and seal.

If using dedicate CO2 tank, Locate the CR-3741 Primary High Pressure CO2 Regulator. Unbox it and be careful to locate the 1/4" Nylon Washer taped to the packaging. Insert this washer into the flare nut on the end of the hose and thread it on to the 1/4" mpt flare on the CO2 reg. Locate paper washer with CO2 Tank and thread CO2 Reg to Tank, making sure its tight.

For Bulk CO2 tank use or shared CO2 systems, use the CR-T5251SN Secondary High Pressure CO2 Regulator to regulate .



CR-3741



CR-T5251SN



Flare Nut with
Nylon Washer in it

Route the Clear Over Flow Water Bath Drain hose from the back of the unit to a floor sink.

The Water Bath must be filled 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 & CR-1

Fill with 4 Gallons of water
Or up to the White Stand Pipe



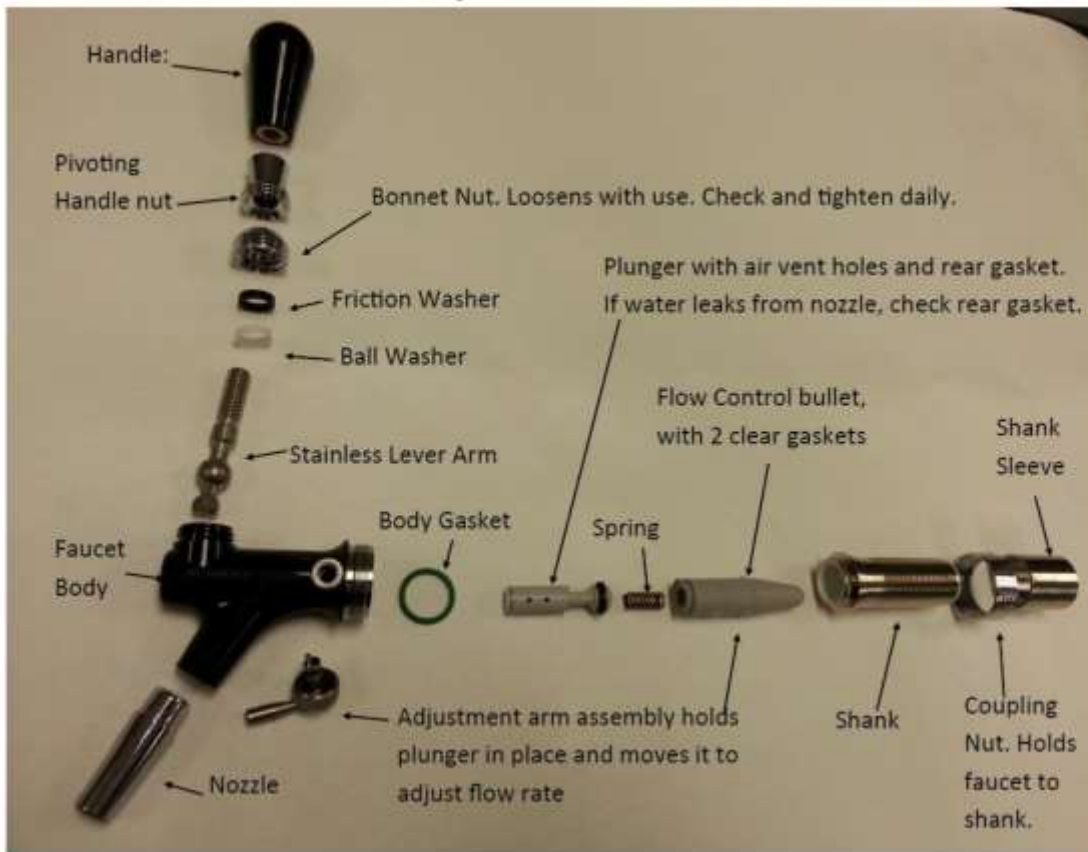
CR-UCM2 & CR-2

Fill with 6 Gallons of water
Or up to the White Stand Pipe



UCM2 Ice Formation
around Ref Coils

Exploded View of X0101 Faucet



The X0101 Black faucet was used on the CBR Towers from 2009-2013.

This faucet is still currently on all Countertop models.

CR-1, CR-1SW

CR-2, CR-2SW

CP2000-CT2

CP-JR-CT2



The Faucet handle is Self closing when released. The internal spring creates this tension to close the valve and shut off flow. The Spring can be removed if self closing is not desired.



Optional X0101-B-HEX Faucets. For use in Self-Serve Applications:
CR-1-HEX, CR-2-HEX models.

The Faucets come with a flow rate control valve on each one of them. This valve is located on the right side of the faucet. It is designed to be adjusted and set via a Metric 2.5 allen hex wrench to a desired flow. Flow is typically set based on cup size being poured into. Adjustments should be made while the faucet handle is held open and water flowing, to visually see the flow setting. Also fill into the glass or carafe you will typically be using to judge fill time and minimize splashing. The slower you can set the flow of sparkling water the better the bubble profile you will get. With the Crysalli unit on and CO2 set to 75 PSI, Adjust the valve to a full flow position, then adjust the flow rate from the faucet down by turning your wrench within a quarter turn. Once set, tighten the outer ring with a wrench to lock the valve in place. Lock Tight can be used on the threads of the outer ring to help keep it tight. The valve may need to be periodically re-adjusted based on use.



Locking Flow Control
Faucet
Part#: X0101-B-HEX
With hex key adjustment.

Using a 2.5 Hex
wrench to adjust flow
rate.



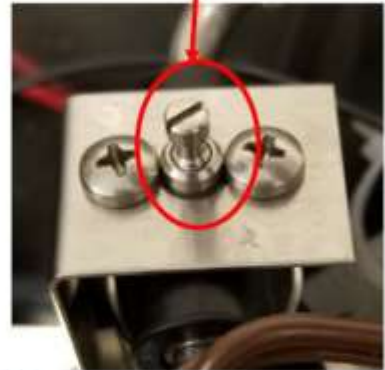
Push Button Series Flow Control Adjustment, CR-1PB & CR-2PB

The PB Push Button models have a flow control set screw that can be found on the top of the Solenoid valve for each valve. Flow rate adjustments should be made with the unit on, cold, CO2 set to 75 psi and filling into a glass.

To access, remove the lid of the chiller to expose Solenoid valves. The set screw is the taller notched screw between the two Philips screws for the bracket.



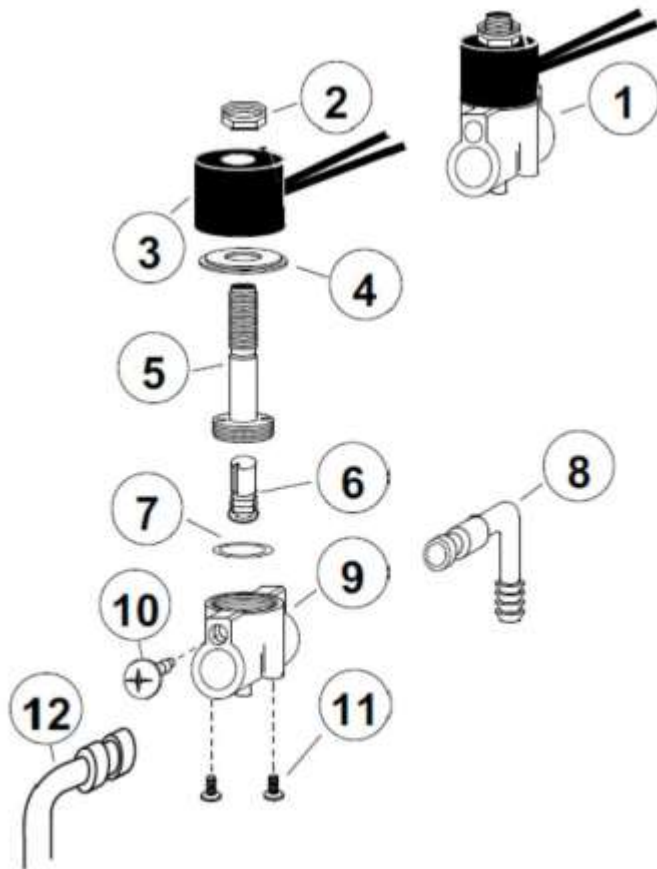
Flow control adjustment screw.
Use a flat head screw driver to turn.



Right to tighten and slow the flow.



Left to loosen and speed the flow up



**Solenoid Valve Assembly
Push Button Chilled Water Dispenser**

SYM	QTY	Item No.	Description
1	1	21005-CWD	Solenoid Valve Assembly -Chilled Water
2	1	E0623	Nut, Solenoid Valve Stem
3	1	E0525	Coil w/Shield, 24VAC
4	1	E0739	Flux Plate
5	1	E0537	Stem, Solenoid Valve
6	1	E0730	Plunger & Spring Assembly
7	1	E0531	Gasket, Soleniod Stem
8	1	21007	Inlet Fitting, 90 Degree w/O-Ring
9	1	21005-BO	Body Only, Solenoid Valve w/Meterin Pin
10	2	40049	Screw, Inlet Fitting, 10-24 x 1/4" S.S. Phil. T.H.
11	2	40048	Screw, Mounting, 10-24 x 3/8" S.S. Phil. T.H.
12	1	E0385-SPL	Outlet Fitting - Specify Unit

Found On Push Button Models:

CR-1PB
CR-2PB
CP2000-CT2-PB
CP-JR-CT2-PB
CM-2-PB-SB
CM-2-PB





CO2 information

CO2 Tanks can be sourced and refilled from local Beverage CO2 Companies (both Bulk and or Tank) and even Welding Supply companies.



On Average 1 Pound of CO2 will be used for every 5 gallons of sparkling water. So a 20 lb Tank should carbonate 100 Gallons (or 12,800 oz's, or 378 Liters of sparkling water)

WARNING: CO2 Can be Dangerous. CO2 Cylinders contain high pressure gas which can be hazardous if not handled properly. Follow all CO2 regulator instructions (found with CO2 regulator). And other handling instructions from the CO2 tank supplier.

CR-3741 High Pressure CO2 Regulator 0-160 PSI:

Attaches to 5-100 lb CO2 tanks. Set at 75 PSI as a starting point.

(Note: Low Pressure Beer Regulators 0-50 psi, will not work properly with Crysalli)

Fill Level Gauge: Volume of CO2 in Tank. Tank is empty when needle is in the red zone or zero

Output Pressure Gauge: Shows CO2 output pressure setting. Set to 75 psi.

1/4" Male Flare connection to Crysalli Chiller. Use Nylon washer supplied with regulator in fitting.

Threaded Connection to CO2 Tank

Pressure Adjustment screw and locking nut.





Model Number: _____ Serial Number: _____

Install Date: _____ Install/Service company: _____

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. A wobbling faucet indicates the faucet body is loosening from the shank which can result in a leak, faucet coming off or stripping the teeth. Use a Shank wrench to tighten the shank nut to the faucet.
 - Check flow from faucet and 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 submerging them in cleaners/sanitizer or using a brush.
 - Check CO2 level at CO2 tank.

- Monthly:
 - Remove and clean the air filter. Replace air filter
 - 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.

- Semiannually:
 - 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).



Limited Express Warranty

Crysalli Artisan Water Systems (hereinafter referred to as Crysalli) warrants for a period of 12 months from installation date (except as limited below) that new Crysalli water systems, towers and faucets (hereinafter referred to a Product) manufactured by ICI for Crysalli shall be free of defects in material or workmanship under normal and proper use and maintenance as specified by Crysalli and upon proper installation and start-up in accordance with the Quick Install Guide and Owners Manuals. Any accompanying water filtration system is warranted by the Manufacture of that product only, not by Crysalli, ICI or WPD.

The obligation of Crysalli under this limited express warranty is limited to the repair or replacement of parts, components, or assemblies that in the opinion of Crysalli are defective. This warranty is further limited to the cost of parts, components or assemblies and standard straight time labor charges at the servicing location. Replacement parts are warranted for 90 days or the balance of the original warranty period, whichever is longer. The foregoing constitutes Crysalli's sole obligation and the consumer's exclusive remedy for any breach of this warranty. Crysalli's liability under this warranty shall in no event be greater than the actual purchase price paid by the consumer for the Product. Additional expenses including, without limitation, service travel time, overtime or premium labor charges, accessing or removing the Product, or shipping are the responsibility of the consumer.

The foregoing limited express warranty shall not apply to costs for: (1) periodic or routine maintenance including water filter change outs, (2) repair or replacement of the Product or parts due to normal wear and tear, (3) defects or damage to the Product or parts resulting from clogged water filters, misuse, abuse, neglect or accidents, (4) defects or damage to the Product or parts resulting from improper or unauthorized alterations, modifications, or changes; (5) defects or damage to any Product that has not been installed and/or maintained in accordance with the Owners Manual, Quick Install Guide or technical instruction provided by Crysalli, ICI or WPD; and (6) any work being performed by non-authorized service agents.

THIS LIMITED EXPRESS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR GUARANTEES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL CRYSTALLI, WPD, OR ICI BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Upon the expiration of the warranty period, Crysalli's liability under this limited express warranty shall be terminated. The foregoing limited express warranty shall constitute the sole liability of Crysalli, WPD and ICI and the exclusive remedy of the customer or user.

To secure prompt and continuing warranty service, the warranty registration card or online form must be completed and sent to Crysalli within thirty (30) days from install date. Complete the following registration card and send to Crysalli/WPD to below address. Retain a copy for your record.

Name of Customer/Business & Address: _____

Phone: _____

Distributor/Dealer: _____

Model Number: _____ Serial Number: _____

Install Date: _____ Install Company: _____

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Web site: www.crysalli.com

Or register online:

