

Serenity-CBRM

Install Guide



PENTAIR

EVERPURE



SERENITY SYSTEM DESCRIPTION

Congratulations on the purchase of your Crysalli system. The Crysalli Serenity, made up of a CP-JR-UC-BH Undercounter chiller/carbonator, CR-12FC Water Filter System and a CP-X3PBWF Faucet Tower or a CBR-V2C-MINI tower are a configuration designed to dispensed bottle quality cold sparkling, cold still and ambient temp still water at the press of a button or pull of a handle.

The Serenity CP-JR-UC-BH unit consist of a condensing unit (refrigeration), a manual fill water bath reservoir, water-cooling coil, a carbonator tank, a carbonator pump, an agitator pump, and cooling coils. The unit will freezer over 1/3 of the water in the reservoir/bath to create a 3 lbs ice block (bank). This ice bank is responsible for maintaining a 32-degree reservoir water temp. The cooling coils and carbonator tank are submerged in the reservoir/bath water to chill and maintain ice cold product temperatures.

For proper function the Crysalli units must have a water supply, dedicated 120 Volt electrical supply and a full CO2 tank. The Installation kit including water filter, a high pressure CO2 regulator, 50 PSI water pressure reducing valve, connecting lines and fittings that must be used to ensure proper operation.

<u>WARNING</u>: CO2 can be Dangerous. Failure to connect the regulator per the instructions may result in leaks, explosions, asphyxiation and cause serious personal injury or death. <u>WARNING</u>: Do not operate or place a Crysalli unit in a freezing ambient environment. A freezing

ambient environment will cause water in unit to freeze and expand, possibly resulting in damage to pump/motor assembly, tank, water coil, water bath, valve(s), etc.

THE DETAILED STUFF: THEORY OF OPERATION

The Crysalli Serenity System was designed to manufacture and dispense carbonated and non-carbonated water much like your local bottling plant that cans or bottles your favorite carbonated or non-carbonated water.

Initially water is filtered with sub-micron filtration to remove, sediment, chlorine, taste, odor and color, while retaining the naturally occurring minerals dissolved in the water for flavor. This filtered water is chilled and then carbonated to dispense a quality drink (ice-cold temperatures are key). To chill the water, the incoming filtered water is routed through a water coil that is submerged in the ice-cold water bath. The temperature of the incoming water is at ambient (room) temperature as it enters the water coil. As the incoming water passes through the water coil the heat is removed from the water and chilled to a temperature acceptable for a quality drink (34-40 degrees target). This chilled water is now routed into the equally cold and submerged carbonator tank where it is mixed with CO2. The carbonation pump must cycle on to jet water (at a higher pressure than the CO2) into the carb tank so the two can properly mix. This water is now transformed into sparkling water and ready for dispensing and enjoying.

Most of the above happens in the water bath part of the machine. The water bath is the sealed upper area where water is constantly agitated and a certain amount of it will be transformed into ice. This water bath and ice bank acts as a reservoir for refrigeration only (none the water in the bath is used for consumption) so you can have an ice cold and properly carbonated sparkling water to drink. Your Crysalli unit will cycle itself on and off as it maintains this ice.

It should be recognized that without refrigeration your carbonation system would not produce a drink that will hold carbonation. There is a direct relationship between dispensed temperature and the volumes of



CO2 that can be held in liquid form (how bubbly your sparkling water can be). Thus your Crysalli unit should be left on even when not in use so it can maintain the ice bank and cold temperatures.

<u>THE REALLY DETAILED STUFF</u>: The following will give a general overview of the flow of individual circuits and a clearer understanding of your mini bottling plant:

An Ice Bank Control (IBC, S0513A) senses the level of the ice in the water bath and turns on or off the refrigeration system. The IBC has a sensing bulb, cap tube and controller. The bulb is submerged in the water bath. There is fluid in the bulb that expands when the bulb is covered in ice. This pushes fluid through the cap tube that pushes a diaphragm that activates the switch in an open position to shut the refrigeration off. Once ice is dissipated from the bulb the fluid backs off, deactivating the switch (closing the circuit) and turns the refrigeration back on to rebuild the ice bank. The water that does not freeze in the water bath surrounds the Water Cooling Coils and Carbonator Tank (Carb Tank) and is constantly recirculating via the submerged Agitator Pump (S0833).

Ambient filtered water enters the Crysalli through the incoming water line. The incoming water should be regulated with the use of the 50 psi water pressure reducer from the install kit. (If the water is not regulated to 50 psi and the water pressure is equal or greater than the incoming CO2 the act of carbonation will be greatly inhibited or completely eliminated. Also, RO water, or water with little or no TDS, less than 30 ppm, will have a hard time carbonating the water and should not be used without consulting Crysalli technical support). This water proceeds through the Water Coil where it is chilled prior to entering the Carb Tank or in the case of non-carbonated water chilled prior to going directly to a valve.

Carbon dioxide gas (CO2) passes from a CO2 cylinder through high-pressure regulator. The high-pressure regulator (CR-3741) regulates the CO2 feeding the Crysalli unit and should be set at 75 PSI. The gas, after leaving the high-pressure regulator goes directly to the carbonator tank. This gas must be at a pressure greater than the incoming water by at least 25-PSI to assure the proper function of the carbonator. Hence the inclusion of the 50 psi water pressure reducing valve in the install kit.

The carbonator utilizes a Soda Jet Recirculating Principle. This process was pioneered in the early 1950's. This principle produces instantaneous carbonation at extremely large capacities. Combined with "Cold Carbonations" (ice cold water with the Carb Tank submerged in the same ice cold environment) results in a superior sparkling water with small dense bulbs that retain in a glass of water for a long time.

The standing CO2 gas pressure stops the water from entering the Carb Tank by itself. So during the cycle of operation the water must be pushed with a Carb Pump/Motor (S1523). The Carb Pump has pistons, which drives the water through the water coil, through a dual check valve, through the soda jet and into the Carb Tank.

The position and angle of the soda jet is fixed to direct an extremely high velocity solid jet of fresh water so as to impinge upon the surface of the stored body of carbonator water within the stainless steel mixing tank. The force created by this jet of fresh cold water entering the mixing tank causes all the water within to cascade and foamesce through the carbon dioxide gas area in a continuous recirculating-manner.

This action causes a breakdown of the surface tension of the water, forming numerous minute gases filled water bubbles. The micro thin walls of these cold water bubbles surrounded by gas both inside and out, offer maximum water surface for the absorption of the gas. The size opening through this jet permits large volumes of water to be carbonated.



As the incoming water is being carbonated it is monitored by a Carb Tank Probe (S0073) that is in the Carb Tank. As the water level within the tank rises, it makes contact with the upper probe which will de-energize a relay on the Liquid Level Control Board and stop the motor from turning the pump. The Carb Pump/Motor will be inactive until water within the tank recedes below the long probe tip, at which time, the relay on the Liquid Level Control Board will close, engaging the motor once again. You will notice the Carb Pump running as you pour sparkling water. And stop soon after you are done pouring once it has finished refilling the tank.

All of the sensors and parts in your Crysalli unit are connected to and are energized by the Liquid Level Control Board (LLCB, part # S0068-U). This is the communication center for the system, telling each part when to turn itself on or off, such as the refrigeration system via the signal from the Ice Bank Control or the Carb Pump/Motor via the signal from the Carb Tank Probe. The board also monitors if the Carb Pump/ Motor runs continuously for too long, which is typically caused by starving the system of water as a result of a plugged water filter or the coils freezing over in the water bath (if the Ice Bank Control stuck closed).

LLCB monitors the pump via a timer built into it that tracks the run time of the carb motor. <u>If it runs for more</u> than 4-8 minutes, the LLCB shuts the Carb Pump/Motor down and illuminates the LED light near the on/off switch to warn you it's in a safety for which the carb system is off. Resetting the safety, which turns the LED light off, and turns the carb system back on is achieved by toggling the on/off switch to the off position for 10 seconds, then back on.

Two items to note if your units goes into this safety in which the LED light is on;

The refrigeration system stays on when in the safety, but since the carb system will be off, thus the machine will eventually just dispense CO2 gas and no water from the sparkling water faucet.
 Also the safety being triggered can be a good indication that the water filter is plugged and needs to be changed out. The filter should be changed before resetting the safety limit.

UNDERCOUNTER COOLING SYSTEM (the CP-JR-UC-BH only)

When installing the CP-JR-UC-BH in a cabinet, the following operations are very important:

Location of the Cabinet: Since the CP-JR-UC-BH has a refrigeration system and carbonation pump in it, it will make noise when the refrigeration system cycles on and as you dispense sparkling water the carb pump will cycle on. So be aware of these ambient noises as standard function and don't place the unit in an area they are not wanted.

As the unit runs it will create heat, 585 BTU per hour (as a reference, 1 burning match creates 1 BTU, so image heat from 585 matches in the cabinet), so there should be some fresh air venation into and out of the cabinet as well enough space surrounding the chiller to insure adequate air circulating through the refrigeration condenser. Do not block any of the vented panels on chiller.

The Chiller should be located within 5' of the Faucet. Water shut off valve/angle stop and dedicate 120 volt power outlet should be located as near the chiller as possible in order to facilitated install and service. Position the Chiller so the condenser coil vent panel is closest to fresh air or the door of the cabinet.





Under Counter Chilled Water Dispenser Quick Installation Guide







42418

Install Kit for CP-JR-UC-BH to CBR-V2C-MINI

	QTY		Description	Part #	Usage
	1		3/8 Tube x 9/26-24 Female Adapter	PSEI6012U9	Optional quick connect fitting adaptor to a 3/8" anglestop
	1		9/26-24 to 3/8 Tube and 9/26-24 mpt	PASVPP6	Angle stop TEE in adaptor. For adding an outlet off the angelstop
	1		Leak Detector alarm and shutoff	CR-LBS10-JG	Leak detector to be installed before filter system includes fittings
	1		Filter head 3/8 tube inlet & outlet	QL1	Manifold head for the water filter. Mount to cabent wall
	1	Contraction of the second	Water filter Cartridge	2FC	Water filter, 1.5gpm, 6,000 gal capacity. Change at least once a year
	2	6	JG 1/2" mpt to 3/8"	CI321214S	JG fittings for Shurflo Water Reg inlet and outlet, Attached to Reg
	1	÷	Water Pressure reducer valve, 50 psi	183-150-NF	Use after the water filter to regulate pressure feeding unit to 50 psi
	5	5	JG 90 Elbow 3/8" Smooth to 3/8	PP221212W	Water inlet and outlet connections on unit, and tower connection
	2		JG super seal elbow 1/4" to 3/8	SI030812S	Super Seal fitting for SS 1/4" product lines on CBR-V2C-MINI tower
	1	6	JG 3/8 Plug	PP0812W	Ambient water outlet fitting plug on CP-JR Chiller.
	17	C	JG 3/8 Locking Clips	PIC1812R	Collet locking clip for 3/8" Hose to JG fittings
	1	0	25' Role of 3/8 OD Tube	PE-12-EI-25	Water Inlet and Product hose. Cut in 4 sections to needed lengths
	1	X	Tube Cutter	TSNIP	For cutting the 3/8" tube to needed lengths.
	1	0	8' sleeve, 1/2" thick insualtion	4463K133	Sleeve of insulation for 2 product lines to tower, 5/8 ID.
	1	•	15' Role of Armaflex tape	1007	insulation tape to wrap product and re-circ lines and tower
	4		15" Zip Ties		For securing hose and water reg to wall.
Π	1		High Pressure CO2 Regualtor	CR-3741	For connecting to CO2 tank. Controls CO2 pressure. Adjustable. Includes 1/4" Nylon washer.

Fitting to hook up a CR-12FC Filter system to a Crysalli Serenity CP-JR-UC-BH Chiller and Serenity Tower Facuet

Kit comes with 25' of 3/8" Tubing and TSNIP Tube Cutter. Messure and cut lengths of hose for inlet and 3 product outlets.



Wrap all exposed fittings and lines from the chiller with to the facuet with insulation tape to prevent sweating of the hoses.







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

How to make a Standard Connection

MAKING A GOOD CONNECTION: JG John Guest[®]

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 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

CUT THE TUBE SQUARE



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.







Inch Superseal Fittings

For use with Stainless Steel Tubing For use on CBR-V2C-MINI Tower







Swivel Combinations.

Locking clips should be connected only after full insertion to prevent scraping of the tube. Locking Clips are not designed for use with John Guest Stem Adapters in

Correctly Fitting not set and tightened tightened down

To tee off an angle stop water valve that is already being used, locate the PASVPP9 Angle Stop Adaptor Tee.



How to connect the Angle Stop Adapter Valve











- 1. Shut-off water supply at brass/chrome supply valve.
- 2. Disconnect riser from brass/chrome supply valve.
- 3. Ensure that the sealing gasket is fully inserted into the Angle Stop Valve female thread.
- 4. Install Angle Stop Adapter Valve on supply valve.
- 5. Connect the riser to the Angle Stop Adapter Valve.
- 6. Fully insert tubing into the Speedfit side of the valve.
- 7. Open valves and check for leaks.

*Conversion Adapter can be threaded to either side of the valve to make configurations of 1/2"x1/2" NPS or 3/8"x3/8" Compression.







For a dedicated angle stop water value, use the PSEI6012U9 adaptor fitting.



To use the <u>PSEI6012U9</u> Angle stop adaptor, identify the angles stop water valve in your cabinet that will be the water source for the system, remove the compression nut and ferule ring from it and thread the PSEI6012U9 fitting onto the valve where the nut and ferule ring were, hand tighten the fitting down.



 1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

DO NOT USE THESE VALVES:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".



Drill a 1.5" Hole in countertop for tower

Mount and connecting the CBR-V2C-MINI



Step #2

Insert tower into the hole 1.5" in the countertop for it, thread on and tightened with a wrench the set nut to secure tower to the counter. Locate grey <u>SI030812S</u> Super Seal 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 Super Seal fittings on the tower tubes.



SI030812S Super Seal Elbow, loosen collet nut, push into SS tube and tighten collet nut or spin fittings around to tighten them and create a seal.



Crysalli 1739 Sabre St. Hayward, CA 94545. 510-732-0100. www.crysalli.com





Locate 2 elbow fittings, 2 red clips, tube cutter, blue 3/8" hose, 8' insulated sleeve and insulated tape.

Cut two 6' lengths of 3/8" hose for the Carb water and Cold water connections.

With a permanent marker or tape, mark one hose at each end about 3" down to differentiate them.

Slide your 2 hoses, Carb Water and Cold Water into the 8' length of insulated tubing. Leave about 6" worth of hose exposed.

Push the elbow swivel fitting onto the blue hose ends and slip the red clips into the collet of the fittings. Push the smooth end of the elbow fittings into the super seal fittings attached to the product connections as high up as possible. Use Insulated Tape role to wrap exposed cold product lines of the draft tower. Once connection are made, slide the insulation tubing up and over lines after the system is leak checked.



connections are

After all



made at the machine and tower, turn on the water to the unit and check all connections for leaks, then wrap all exposed hoses and fittings with the insulated tape. Failure to do so can result in sweating of the hoses and fittings which will result in water drips.

both sides of it.

indicator mark on one hose,

Make an

Mounting Faucets & Handles to Tower



Locate the Faucet Bodies, Handles and Faucet 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



push back to lock in

Set the faucet position,











Pull shank nut to faucet





Once the Faucet Bodies are attached to the Tower, thread the Handles on to the them. Thread down till 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.

Serenity Chiller, CP-JR-UC-BH







Serenity CR-JR-UC Connections data with CBR-V2C-MINI tower



Locate 2 Swivel Elbow fittings and red clips, these should be used to decrease tension on the hoses when connected to the bulkhead of the chiller. Push the fittings onto the hose ends and place the locking clips on the fitting collet just as you did at the tower end.

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Push the assembled hose and fittings into the bulkhead connections for Carb Water and Plain Water on the chiller. Pull the insulation down over the fittings. After water is turned on to the unit, go back and check fittings for leaks and wrap all exposed hose and fittings with insulated tape.



ChillertoFaucetCarb=SparklingWater=SparklingPlain=Chilled StillWater=Chilled StillMater=Plugged

Match your connections

CARB PLAIN AMBIENT WATER WATER WATER





CR-12FC Filter System

Flow Rate: 1.5 gpm Capacity: 6,000 gallons

> Effectively filters dirt and particles as small as 1/2-micron in size by mechanical means.

> Reduces chlorine taste & odor and other offensive contaminants that can adversely affect the taste and quality of sparkling and still water.

NSF/ANSI Standard 42 class I and 53 certified to reduce cysts such as Cryptosporidium and Giardia by mechanical means.

Replace cartridge when flow rate becomes inconveniently slow from faucet or at least once a per year.

50 PSI Water Pressure Reducer Valve

Install after the water filter system close to the chiller. Reducer valve is directional. Arrow on valve indicates water flow direction. Failure to install in the correct direction will result on no water flow.

Do not over tighten fittings. Fittings have an O-ring gasket, so Teflon tape is not required.



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. Crysalli 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.



Inlet Connections from angle stop.





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

Attaches to CO2 tank. Set at 75 PSI as a starting point.



Turning the high-pressure regulator adjustment screw clockwise will increase pressure supplied to our carbonator, which will be indicated on the gauge. To lower pressure to carbonation system it is recommended that the adjustment screw be turned counter clockwise several full turns and then the relief valve on the Carb tank be lifted lowering pressure in carbonating system, now readjust. When adjusting C02 high-pressure regulator set to 75 psi as recommended.



CO2 information

CO2 Tanks can be sourced and refilled from local Beverage CO2 Companies, Welding Supply companies or home brew retailers.



On Average 1 Pound of CO2 will be used for every 5 gallons of sparkling water. So a 5 Pound Tank should carbonate 25 Gallons (or 3,200 oz, 400 8 oz cups of sparkling water)

Use a Tank that fits best in the space you will be placing it.

WARNING: Carbon Dioxide (CO2) Can be Dangerous. CO2 Cylinders contain high pressure gas which can be hazardous if not handled properly. Store tank upright.

WARNING: Carbon Dioxide (CO2) is odorless and tasteless. CO2 Can cause injury or death. CO2 gas can cause suffocation. The gas is heavier than air and tends to collect low to the ground. If CO2 tank or regulator leaks vacate the area and, ventilate the space to clear gas (open doors and windows).

Follow all CO2 regulator instructions (found with CO2 regulator). And other safety handling instructions from the CO2 tank supplier.

		Filling the Water Bath.
		Remove the lid of the unit to expose the water bath. This is a sealed chamber designed to hold 1 gallon of water that is used to chill the product water hoses and carb tank.
		Manually fill the water bath up with 1 gallon of water, up to the White stand pipe
		Overflow of water will drip into the SS drip tray as water freezes.
		Once turned on the water bath will freeze a block of ice over the refrigeration coils on the side.
		Give the unit an 1.5 –2 hours to freeze a full ice bank. Unit will cycle on and off to maintain ice bank. Empty any water that drained into the SS Drip tray.
		Check water bath every 6 months and top off it needed. Once a year, drain, clean and refill.
	Start up sequence:	
	1. Make all connections to unit and fro	om unit to Faucet.
	2. Place battery in Leak Detector and	position sensor near Chiller and water filter.
	 Connect the CO2 Reg to the CO2 F on the braded hose). Connect the R 	Hose (use the 1/4" nylon washes supplied with the regulator, for the flare fitting Reg to a CO2 tank. Do NOT turn the CO2 on yet.
	4. Fill the water bath with 1 Gallon of v	water and replace lid on unit.
	5. Turn the water on to the unit. Check	k for leaks.
	Draw about a gallon of water from the sputtering to flush the water filter of	the still chilled or ambient water valves until water is flowing without air.
	Plug the unit in and toggle the power	er on.
	8. Turn the CO2 on at the tank. Set C(02 pressure to 75 psi. Tighten any CO2 fittings that are leaking.
	 Draw water from the sparkling butto the water. The carb pump will run at 	on on the faucet. Run about a gallon of water till you visually see carbonation in s you draw carb water.
	10.Water Bath will need an 1.5-2 hours Carbonation level of the water and r	s to form full ice bank. At this point run more Sparkling water to check make your flow rate adjustments at the chiller to meter down the force of flow.
19	11. Enjoy fresh cold sparkling and still	water at a push of the button.



Sparkling Water Flow Adjustment Lock Out.

Upon start up of the system, the Faucets (CR-SSQ1231) used on the CBR-V2C-MINI tower will need the flow rate adjusted and set.

These faucets are designed with a flow control adjustment knob (decrease or increase the flow of the water) on the right side of the faucet body. It will be desirable to lock in a lower flow of the sparkling water rather than allowing it to be adjustable. This will prevent splashing from high pressure flow and will maximize carbonation profile of the water (the slower the pour the better the bubble profile). The faucets can also "wander" or increase to full flow on its own with use if not locked down. To lock in a set flow rate, these faucets are supplied with a Stainless Steel lock washer on the adjustment knob, once tightened down it will prevent the knob from being turned or moving on is own.



To set the flow rate & lock the flow adjustment knob (make sure system is on and cold, and CO2 open):

- Locate the black plastic three pronged adjustment knob on the right side of the faucet, and check that you can freely turn it (you may need to loosen the Phillips head set screw a little so the knob can turn).
- With a cup under the faucet pull open the handle so sparkling water is flowing. While water is flowing turn the knob to adjust the flow rate (clockwise or away from you to decrees the flow).
- Once a favorable flow rate is determined, tighten the set screw (while not turning the knob) so teeth of washer bite in to the plastic, this will lock the knob so it can no longer be turned or move out of adjustment on its own.
- Check the flow rate again by filling a cup and confirm if the knob is properly tightened down so it cant be turned by hand.





Crysalli Serenity 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).
 - Check flow from faucet. Re-adjust flow control if needed. Note that the sparkling water can come out more forceful after prolonged non-use.
 - Check that flow, temperature and carbonation of water poured from the unit are consistent to average use.
- Monthly:
 - Check CO2 level at CO2 tank. A 5 lbs CO2 tank can last up to 3 months with moderate volume use. If Sparkling water is no longer carbonated, this is an indication the CO2 tank is empty and should be replaced.
- Quarterly:
 - Inspect and clean any dust from the Condenser coils on chiller (use compressed air or a wire brush, avoid any damage to the coil fins).
 - Check the water bath level, either top off or drain, clean and refill.
- Semiannually:
 - Drain water bath, clean and refill with new water. Place a container large enough to hold 1 gallon of water under the drip tube at the drip pan. Pull White overflow dip tube in the water bath to drain the bath water. Remember to replace the Dip Tube before refilling the bath.
 - Check for drop off in water pressure from the Cold and Ambient water at the faucet. This will be an indication the water filter is plugging with debris and should be changed. Use only 2FC replacement filter cartridges. (The sparkling water should not slow down its flow as the filter begins to clog. A plugged water filter will result in the sparkling water gassing out as it is pouring. Or only dispensing CO2 gas. If the system does not dispense water and only gas then check if the LED light is on at the chiller. This is a safety warning that the water flow is plugged. Check the water filter or ice bank in water bath. Turn the unit off for 10 seconds then back on once water flow issue is resolved to reset safety).
- Annually:
 - Inspect internal water bath components such as Agitator pump, CO2 and Water inlet check-valves on carb tank, bleed valve on carb tank and all hose/barb connections.
 - Change Water Filter. Use only 2FC replacement filter.

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Register your Crysalli system at:



