



Install Guide

Still Only Countertop Chiller System CR-1SW, CR-1SW-PB & CR-2SW, CR-2SW-PB



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CR-KIT-SWCT Install Kit Install Kit for CR-1SW & CR-2SW

Ordered Separately Countertop Still Water Chiller Systems

QTY	Description	Part Number	Usage
1	 Leak detector alarm and shutoff	CR-LBS10-JG	To be installed before filter system
2	 JG 90 elbow 3/8" smooth to 3/8"	PP221212W	For trunkline outlet of unit and water inlet
1	 3/8 Tube x 9/26-24 Female Adapter	PSEI6012U9	Quick connect fitting adaptor to an anglestop
2	 5/8" (1/2") Stem to 3/8" tube	PP062012W	Adaptor reducers for filter system inlet and outlet
2	 1/2" Tube to 3/4" NPT	PSEI02026	Adaptor reducers for filter system inlet and outlet
3	 JG 3/8 Locking Clips	PIC1812R	Collet locking clip for JG fittings
12'	 12' Section of 3/8" OD tubing	PE-12-EI	Water inlet tubing, filter system to chiller
6'	 6' section of 3/8" ID clear drain hose	3/8" CLR	For extending the clear drain line hose
3	 15.7 Oetiker Clamps	15.7-706R	For crimping drain splice barb fitting
1	 Splice Barb 3/8" to 3/8"	9013	Use to add additional drain line
4	 8" Zip Ties	S-14041	Use to secure the tubing

This Kit is designed to supply you with the fittings & parts you may need to complete the install of an CR-24FC water filter system with 3/4" inlet and outlet fittings to a Crysalli CR-1SW or CR-2SW still water chiller unit.

Connections: The water inlet is the 3/8" quick connect fitting on the bottom of the chiller. Use the PP221212W elbow fitting with hose connection from water filter into it.

The clear hose is the overflow drain hose.

Water bath must be manually filled with water up to the white standpipe. About 1/3 of this water freezes into an "ice bank" around the refrigeration coils and chills the filtered water that runs through the water coils.

Always reference local plumbing codes to determine if a backflow preventer is required and to check the type/style of backflow preventer that is accepted as well as the plumbing location it needs to be placed in.

Crysalli does not include backflow preventers in the install kits because of variability in requirements.

Backflow devices should be sourced from local plumbing stores.

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



Step 1
Cut the tube square and remove any burrs or score marks. We

Always pressure test once installed.



Step 2
Push the tube into the fitting and up to the tube stop.



Step 3
Pull on the tube to check that it is secure. Test the system before use.



CR-1SW & CR-2SW

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-SWCT 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 3/4" fpt inlet and outlet, locate the adapter fittings in the install kit to reduce down to 3/8" (PSEI02026 1/2" tube to 3/4" mpt, and PP062012W reducer 5/8" stem to 3/8" tube). Locate the PE-12-EI, 12' role of 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 3/8" anglestop adapter 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 3/8" quick connect fitting outlet to the filter system. Measure and cut a length 3/8" OD hose to connect from the angle stop to the inlet of the filter system. Consult local plumbing codes for use and requirements of a backflow device.
5. The water inlet for the chiller is a 3/8" quick connect push-in fitting, located on the bottom base of the unit near the front legs. Connect the end of 3/8" hose from the water filter system to the PP221212W elbow swivel 3/8" tube to 3/8" stem fitting and connect that fitting into the inlet of the chiller.
6. 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.
7. 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.
8. Fill water bath: Remove lid and fill water bath with non-filtered/ non-softened tap water, fill up no less than 1/4" to top of white standpipe. This is the vertical white tube in the water bath that is connected to the clear overflow hose.
9. 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.
10. 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 an "n" shape around the outside edges of the bath.
11. 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.
12. Once unit has built the ice bank the water will dispense ice cold. Adjust the flow control handles on the faucets for your preferred flow rate.

Countertop Series Start-up and Install Check List

Start-up Sequence:

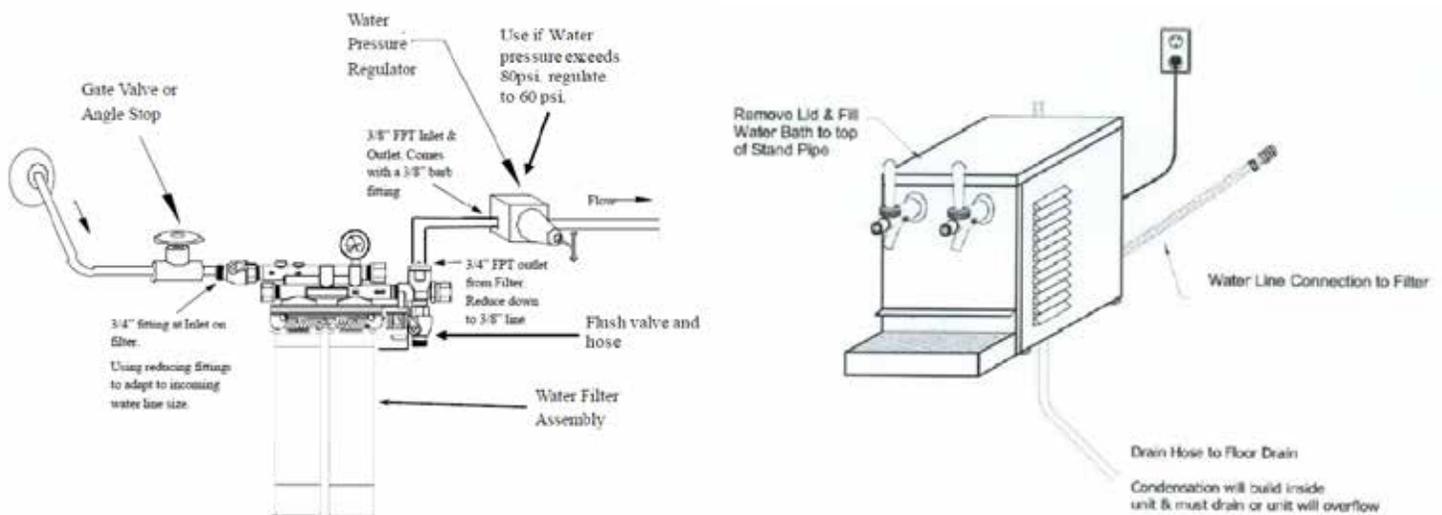
- Confirm the water bath is filled
- Turn water on to unit (confirm flow from faucets)
- Plug unit in and toggle on/off switch to the on position.

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.

Countertop Chiller:

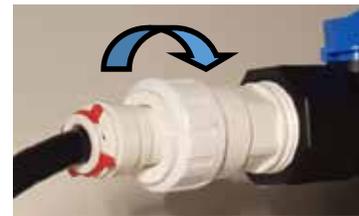
- Faucets tight and positioned vertically. Handles tight and positioned front facing.
- Water bath filled with water up to the top of the WHITE stand pipe.
- Unit on and plugged into a dedicated 120V outlet.
- Ice bank formed/forming on refrigeration coils in water bath. Unit cycling on and off properly to maintain ice bank. Unit will take 2 hours to form full ice bank after initial start-up.
- Water is 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.



Installing the Water Filter System & Angle Stop Adaptor

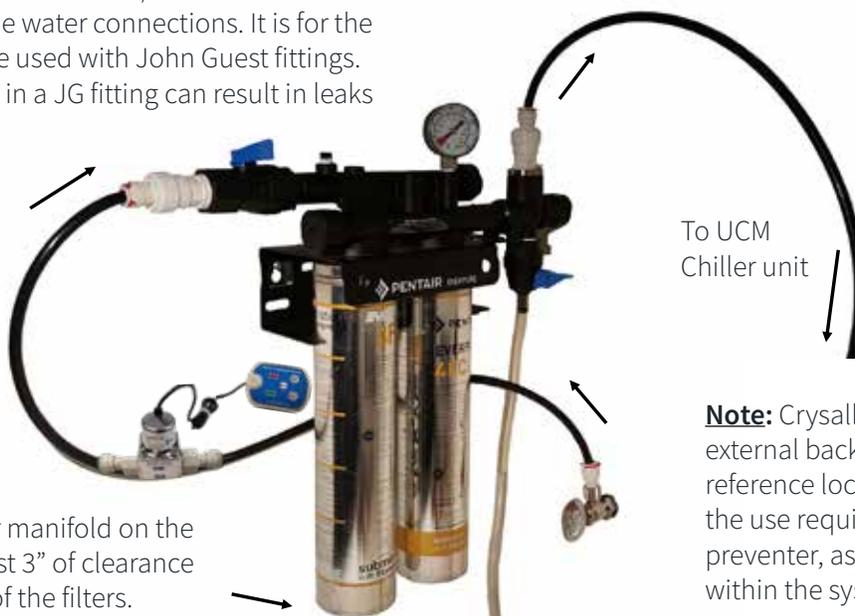
Locate the 2 PSEI012026 1/2" to 3/4" MPT fittings and PP062012W 5/8" stem to 3/8" tube adaptor fittings from the UCM Install Kit, along with 2 red locking clips. These are your inlet and outlet fittings for the twin water filter system. Wrap some Teflon tape around the threads of the 3/4" MPT fitting, 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.

To UCM Chiller unit

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.

Water Inlet connection CR-1SW and CR-1SW-PB

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.

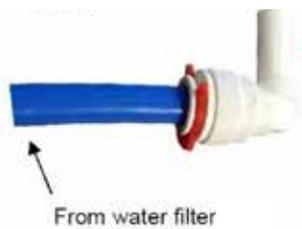


Water inlet connection: 3/8" push-in hose connection.

Located at the base of the chiller, near the front, 3/8" clear overflow drain hose and 9' electrical cord.



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



Water Inlet connection CR-2SW and CR-2SW-PB

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.



Connections found on back side of CR-2SW and CR-2SW-PB model

- 120 Volt electrical cord and plug, NEMA 5-15
- Water inlet connection: 3/8" push in hose connection.
- On/off Switch
- Safety LED light
- Air filter



Water Inlet hose connection made with PP221212W elbow swivel fitting and 3/8" hose from the water filter system.



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.

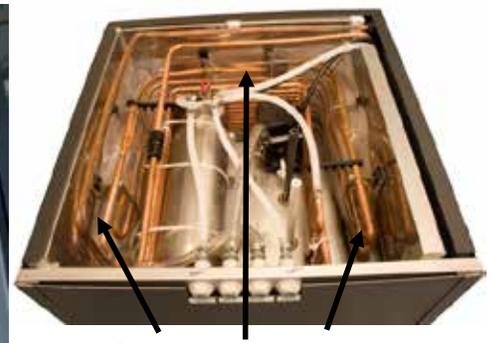
CR-1 & CR-UCM1

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



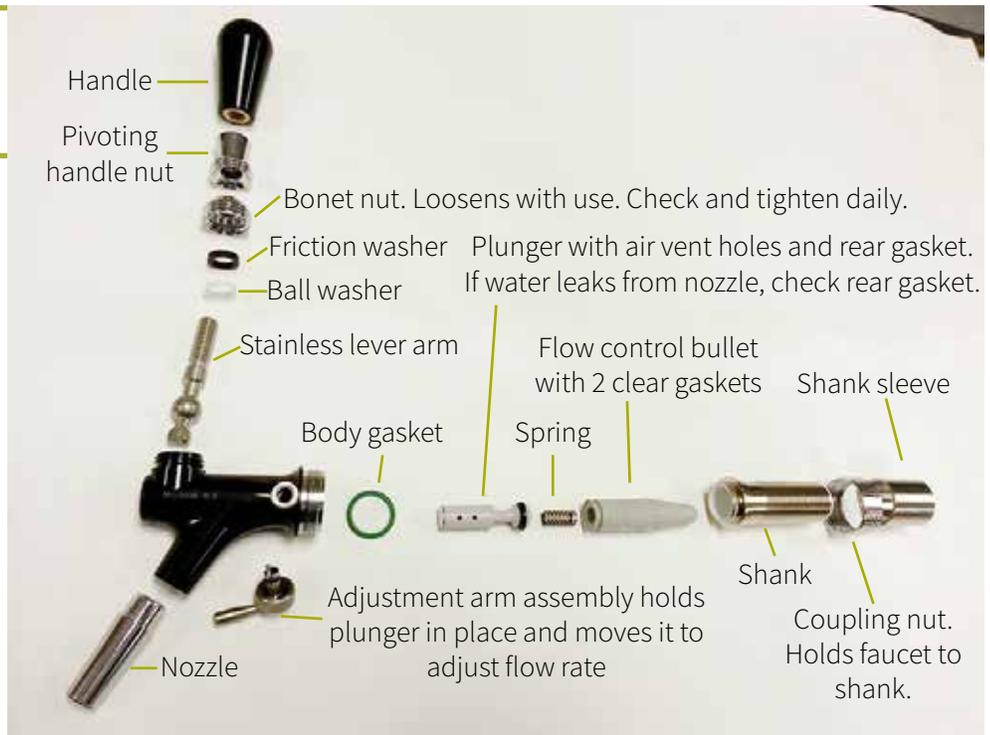
CR-2 & CR-UCM2

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

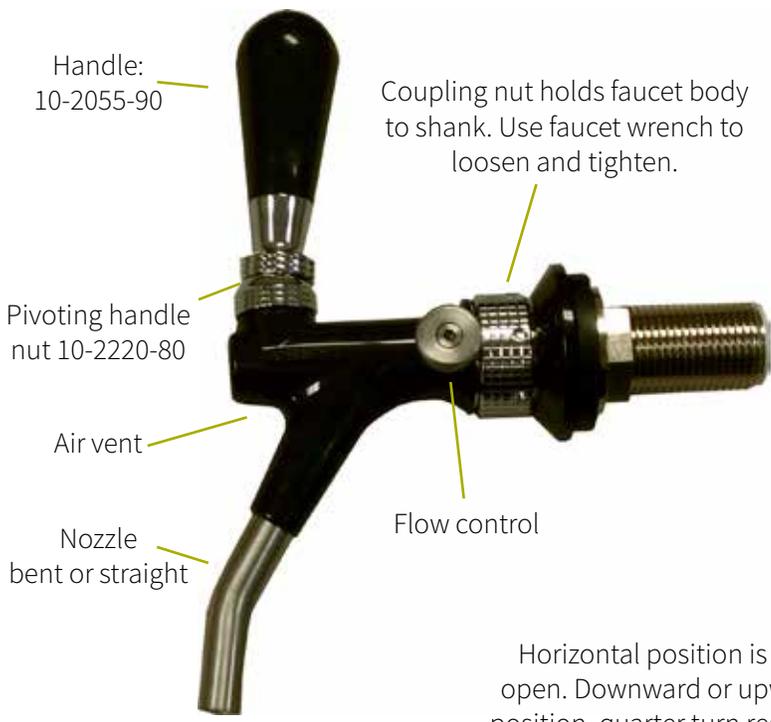


✓ CR-UCM2 ice formation around ref coils

Exploded View of X0101 Faucet



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.



X0102 Rear nut fitting 1/4" barb. Used on CR-1, CR-2 and other countertop models.



Using a 2.5 hex wrench to adjust flow rate



Horizontal position is full open. Downward or upward position, quarter turn restricts or slows flow from the faucet. Flow can be completely shut off if turned too far back.

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

The push button (PB) 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 74 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.

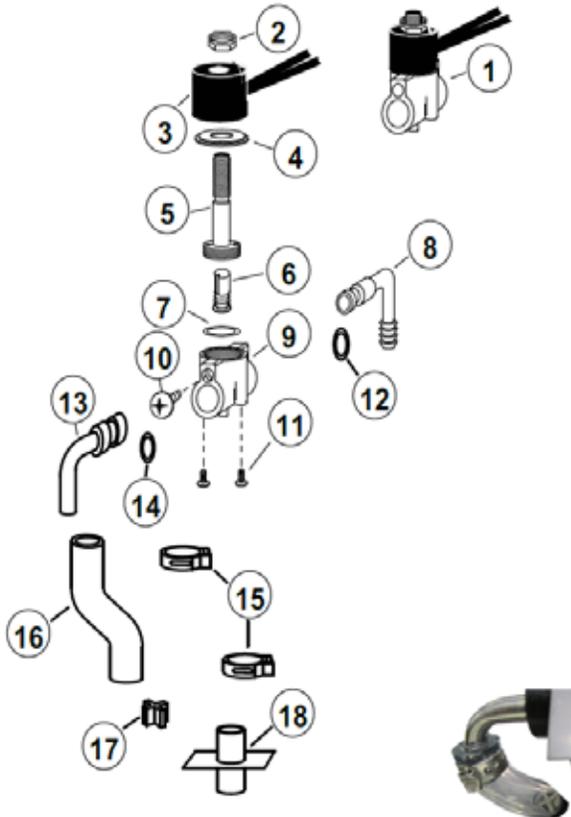
Use a flat head screw driver to turn.



Right to tighten and slow the flow.



Left to loosen and speed the flow up.



Solenoid Valve Assembly Push Button Chilled Water Dispenser 21005-CWD Solenoid Valve Assembly Includes all Parts		
SYM	QTY	Item No. Description
1	1	21004 Solenoid Valve, Only
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, Solenoid 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	E0137 O-Ring, for 21007 Inlet Fitting
13	1	E0385-SPL Outlet Fitting, CWD-PB
14	1	E0134 O-Ring, for E0385-SPL Outlet Fitting
15	2	S1090 Clamp, 15.7
16	6"	3/8" CLR 3/8" Clear Tubing
17	1	20007 Diffuser, CWD-PB
18	1	20008 Nozzle, CWD-PB

Found On Push Button Models:
 CR-1PB
 CR-2PB
 CP2000-CT2-PB
 CP2000-CT3-PB
 CP-JR-CT2-PB
 CM-2-PB-SB
 CM-2-PB



CR-1SW & CR-2SW Countertop 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. 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, loosen, readjust, and tighten flow control knob as needed.
- Check that flow and temperature 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.

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.
- 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:



Limited Express Warranty

Crysalli Beverage 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 as 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:

Crysalli Beverage Systems
1739 Sabre Street, Hayward, CA 94545
Phone: 510-732-0100 Fax: 510-732-0155
Website: www.crysalli.com

Or register online:

