Crysalli
Beverage Systems

Install Guide

CR-CPS Cold Plate System, Sparkling & Still Water Dispenser

CR-CPS-DI, CR-CPS-FS, CR-CPSW-DI

Register your product online:

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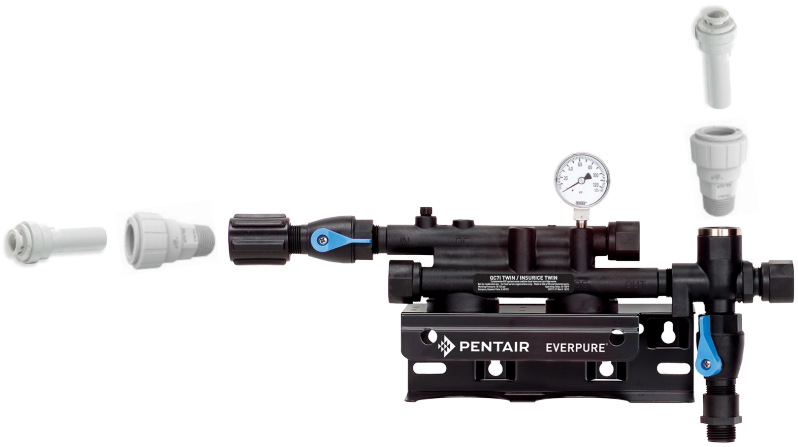
03182025

CR-KIT-CPS Install Kit
Ordered Separately

Install Kit for CR-CPS-DI, CR-CPS-FS models, and CR-24FC
3/4 FPT on filter to 1/2” CTS to 3/8” hose

QTY		Description		Part Number	Usage
	1		3/8 Tube x 9/26-24 Female Adapter	PSEI6012U9	Optional quick connect fitting adaptor to a 3/8” anglestop
	2		1/2” Tube to 3/4” MPT	PSEI02026	Fittings for for inlet & outlet of filter
	2		5/8” (1/2”) Stem to 3/8” tube	PP062012W	Adaptor for use with PSEI02026 fittings
	1		50 PSI Water Pressure Reducing Valve (WPRV)	183-150-NF	Install after water filter system to regulate pressure feeding unit to 50 PSI
	2		JG 1/2” mpt to 3/8”	CI321214S	JG fittings for Shurflo WPRV inlet and outlet. Attached to Reg
	5		JG 3/8 Locking Clips	PIC1812R	Collet locking clip for 3/8” Hose to JG fittings
	12		8’ of 3/8”OD hose	PE-12-EI	Water Inlet and Product hose
	1		Leak Block Sensor	CR-LBS10-JG	Set in drain pan, in cabinet, or below unit
	2		JG 90 elbow 3/8” smooth to 3/8”	PP221212W	Water inlet and outlet connections on unit. Swival connections

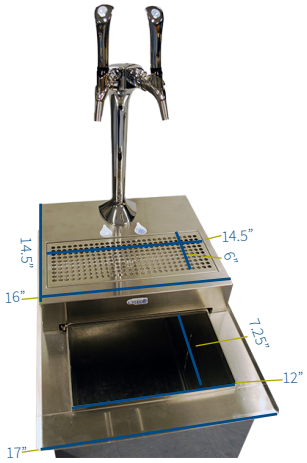


CR-CPS Quick Installation Guide Instructions

1. Select a location for you chilled water dispenser unit and make sure it is level. If installing at CR-CPS-DI, Drop-in the counter top should be cut to 15 3/8" wide x 23 3/8" depth. Place unit as close as possible to water filter connection & 120 VAC/20 amp electrical outlet.
2. Connect water inlet line from unit (3/8" braded line labeled "water") to your water filter system. The CR-KIT-CPS contains the inlet and outlet reducer fittings to connect the CR-24FC filter system (PSEI012026 & PP062012W). Utilize the Angle stop adaptor fitting (PSEI6012U9) to convert a standard 3/8 farule ring and compression nut to a quick connect.
3. Locate the 50 PSI Water Pressure regulator from CR-KIT-CPS. Install on the outlet side of the Water filter system, feeding into the CR-CPS unit.
4. Turn on water. Flush 5 gallons of water through filters, using Flush Valve, to flush out any carbon fiber and air. Close flush valve and check all connections for leaks.
5. There are two drains on this unit. Run the clear drain hose to floor drain or other waste drain. This is the drain off for the drip pan.
6. The second drain is for the ice bin, which is a ½ pvc male thread fitting. Run a drain line from this fitting to a floor sink or other waste drain.
7. Connect a high pressure CO2 regulator to CO2 cylinder then connect CO2 line from unit to regulator. Insert the nylon washer from sent with the Regulator in the ¼" SS flare nut on the CO2 braided line from the CPR-CPS unit. Attach hose to CO2 Reg.
8. Open CO2 by turning knob on tank. Adjust regulator to 75 PSI. Check for CO2 leaks.
9. Plug unit power cord into 120 VAC/20 amp electrical outlet.
10. Slide open ice bin lid and fill with cube ice. This bin will hold 40 lbs of ice. Close the lid to turn on the unit (the on/off switch is tied into the lid; open lid is off, closed lid is on). Unit can burn all 40 pounds of ice in as quick as 20 min under heavy use.
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 and chill the plate down before full sparkling water will dispense.

Scan for warranty:

CR-CPS Dimensions and Connection Details



Inlet connections. Found at back of machine.

1/4" CO2 line

3/8" water inlet line

3/8" Drip pan drain hose. Located out the back of the unit. 6' length.

1/2" Ice bin drain fitting. Located in the back on the bottom of the bin.

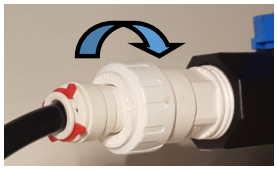
Installing the Water Filter System & Angle Stop Adaptor

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 on to the larger fittings and twist lock the larger fittings collet.

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

PSEI012026

PP062012W



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.

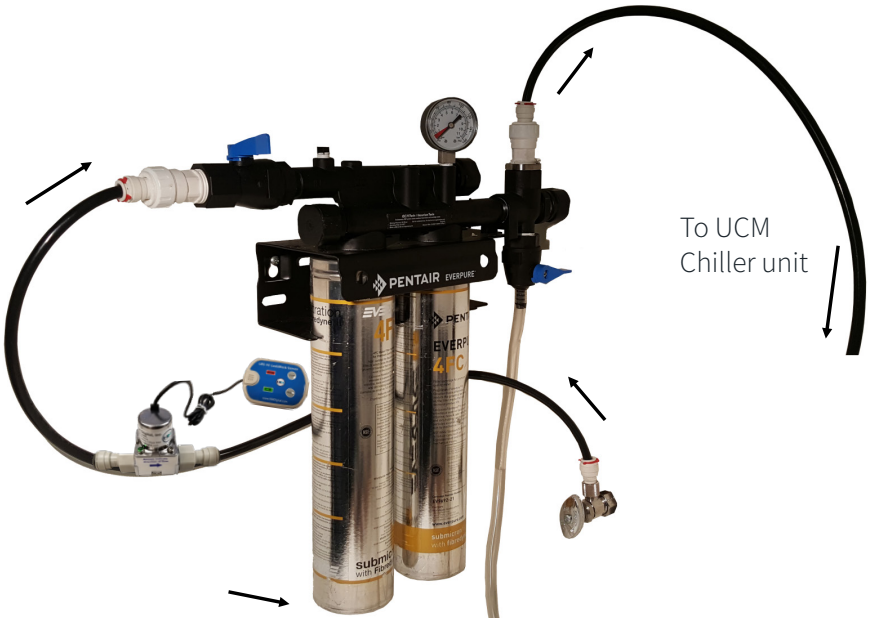
Install reg. with arrows pointing to the UCM unit.

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.

Install kit comes with 12’ of the blue PE-12-EI tubing. Cut this to appropriate length for inlet and outlet needs.



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.

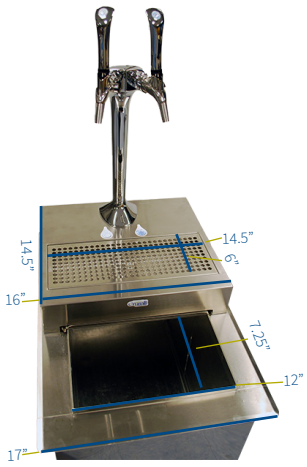
CR-CPS-DI

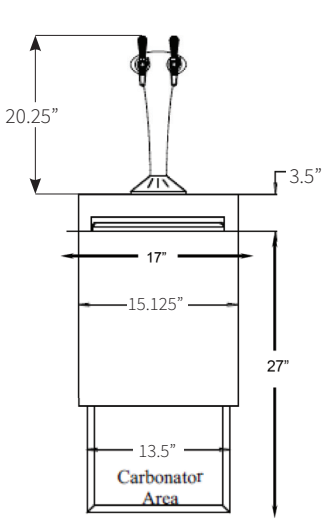
Cold Plate Drop-In style

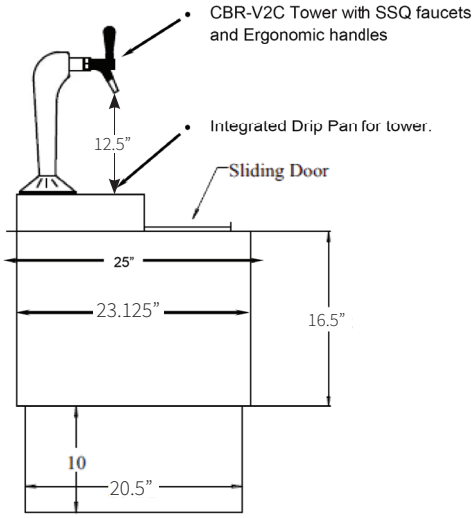
Sparkling & still water dispenser.

Pre-assembled cold carbonation system. Plug and play design.

- Ice-cooled cold plate.
- Manual fill.
- 40 lbs ice storage.







Countertop cut out dimensions:
15 3/8" wide x 23 3/8" deep

Top lip trim dimensions:
17" wide x 25" deep

- 3/8" hose inlet connection
- 1/4" CO2 hose 6'
- 1/2" MPT Ice bin drain
- 1/2" drip pan drain hose
- 115V 6' electrical cord

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 to work with these fittings and will result in leaks.

If using dedicate CO2 tank, locate the CR-PC160 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-S115 secondary high pressure CO2 regulator to regulate.

CR-PC160

CR-S115

CO2 Information

CO2 tanks can be sourced and refilled from local beverage CO2 companies (both bulk and/or tank) and welding supply companies.

On average, 1lb of CO2 will be used for every 5 gallons of sparkling water. A 20lb tank should carbonate 100 gallons (12,800oz 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 instructors (found with CO2 regulator) and other handling instructions from the CO2 tank supplier.

CR-PC160 High Pressure CO2 Regulator 0-160 PSI

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

Note: Low-pressure beer regulators 0-60 PSI will not work properly with Crysalli.

Output pressure gauge: Shows CO2 output pressure settig. Set to 75 PSI.

Fill level gauge: Volume of CO2 in tank. Tank is empty when needle is in the red zone or zero.

Threaded connection to CO2 tank.

1/4" Male flare connection to Crysalli chiller. Use nylon washer supplied with regulator in fitting.

Pressure adjustment screw and locking nut.

Sparkling Water Flow Adjustment

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 to adjust and set the flow rate. The slower you can set the flow of sparkling water, the better the bubble profile.

1. This valve is located on the right side of each faucet. It is round with two flat sides.
2. Locate the 2.5mm Allen wrench (suppled with tower) and insert into allen head.
3. Flow is typically set based on the cup size. Sparkling water will retain more bubbles with a slower flow. 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.
4. Once set, tighten the outer ring nut to help keep the flow set and prevent it from being loosened by hand. First hand tighten, then rotate an additional 1/4 turn clockwise with a wrench.
5. The valve may need to be adjusted periodically. Leave the supplied 2.5mm Allen wrench along with the red spanner wrench with the owner/operator.
6. Review with them the flow rate and how to adjust as well as the maintenance guide in the owners manual.