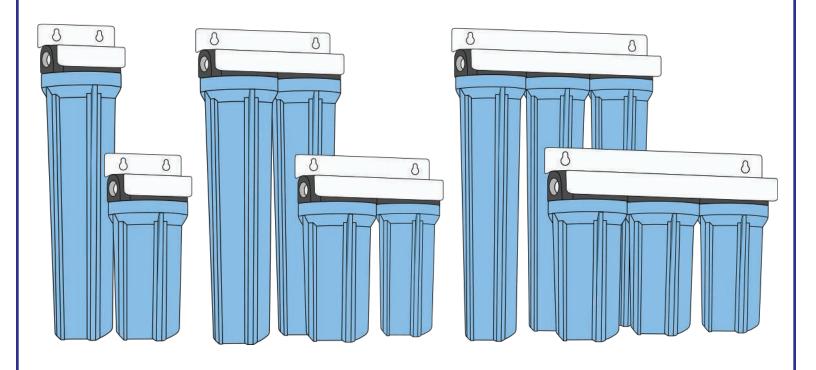


Crystal Quest® Point-of-Entry (POE) Whole House Compact Water Filter Systems INSTALLATION AND OPERATION GUIDE



ONLINE WARRANTY INFORMATION http://CrystalQuest.com/warranty.html

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! IMPORTANT INFORMATION

- Inspect the carton and unit for evidence of rough handling and concealed damages. If contents appear damaged, ask driver or contact carrier for a damage claim form to fill out. Shipper must be notified immediately.
- · Remove components from shipping carton. Check that all installation parts are present, which includes the unit and installation hardware.
- This system should be installed to meet *local, state, and federal plumbing codes* and health department rules and regulations. Check with your state and local Public Works Department for plumbing and sanitation codes. These guidelines must be followed as you install the water filtration system.
- All Crystal Quest® water filtration systems should be installed by a licensed plumber or other qualified contractor. Not using the service of a plumber may void the warranty. Crystal Quest® assumes no liability whatsoever for systems improperly installed or those installed by anyone other than a qualified, licensed plumber.
- Do not use with water that is microbiologically unsafe or of an unknown quality without adequate disinfection before or after using the system.
- Your Whole House Compact system will stand up to 60 pounds per square inch (psi) water pressure. If house water supply pressure is higher than 60 psi, install a working pressure reducing valve before installing system. The most common residential operating range is 35-65 psi.
- Turn off the water flow to the house while installing the system.
- Refer to this guide and/or other labels for more information.

System color may vary (i.e., brown, blue, white, etc.)

Operating Specifications

Pressure Range: 30-60 psi (2.1-4.1 bar)

Temperature Range: 40-100°F (4.4-37.7°C)

Optimum Service Flow: 3-8gpm*

*Depending on size of system



SAFETY PRECAUTIONS

Read all instructions carefully to learn the details for installing and using your whole house water filter system. Failure to follow the Installation and Operation Guide could cause bodily injury and/or property damage.

- · Do not install on hot water line.
- Cold water use only.
- Use the system on a potable (safe-to-drink) COLD water supply only.
- Change cartridges routinely.
- Do not cross-thread fittings or housings. If cross-threaded, place the unit out of service.
- If the water flow slows or stops, replace cartridges.
- Check installation frequently for first week to make sure no leaks have developed.
- If away for over 72 hours, put the system in bypass mode.
- Device is to be installed downstream of pressure reduction valve before filter.
- Keep away from chemicals.
- Read the instructions carefully and learn the specific details regarding installation and use. Failure to follow them could cause serious property damage. Crystal Quest® accepts no liability for property damage.
- A Leak Detector Valve is recommended to avoid accidental property damage.
- Review Installation Diagram of Compact Whole House (Page 6) before starting installation.

CAUTION: The rubber O-ring provides a watertight seal between the cap and the bottom of the housing. Make sure the O-ring is properly seated in the groove below the threads of the housing or a water leak could occur.

CAUTION: Housings may crack in time, causing failure and leakage if exposed to organic solvents, such as those found in aerosol sprays for cleaning products and insecticides.

- The contaminants or other substances removed or reduced by the selected cartridge(s) are not necessarily in your water. Ask your local water municipality for a copy of their water analysis, or have your water tested by a reputable water lab.
- After prolonged periods of non-use (such as during a vacation), it is recommended that the system be flushed thoroughly. Let water run for 5-6
 minutes before using.
- The filter cartridge(s) used with this system has a limited service life. Changes in taste, odor, color, and/or flow of the water indicate that the cartridge should be replaced.

This Compact Whole House Water Filtration System Installation and Operation Guide has instructions for installation on your house main water pipe using: (A) compression fittings; (B) soldered copper fittings; (C) threaded pipe and fittings. For each installation, refer to the appropriate illustrations.

FOR ALL INSTALLATIONS

- 1. **Decide where to locate the water filter housing.** Select a location for the filter that is: (1) Protected from freezing; (2) Not exposed to direct sunlight or high heat.
- 2. Place a shut-off valve on both sides of the filter (recommended).
- 3. Place shut-off valves directly upstream of your household filter (recommended).
- 4. Place Whole House Leak Detector Smart Valve (CQE-WH-03064) directly upstream of your household filter to avoid water damage (recommended).
- 5. Plan your installation. Consider some of the following variables:
 - · Water filter housing inlet and outlet internal threads
 - Existing plumbing type (copper, threaded, etc.) and nominal size (3/4", 1", etc.)
 - Tools needed, plumbing skills, cost of materials needed
 - Space availability (make a simple sketch of your proposed installation and a list of plumbing materials)

NOTE: Pipe, Shut-offs valves, and fittings are not provided by Crystal Quest®.

WARNING

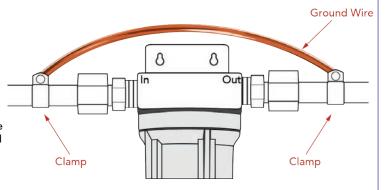
A copper or galvanized cold water pipe may be used to ground electrical outlets in the home. Grounding protects you from electrical shock. Failure to maintain this ground path may result in an electric shock hazard. If the cold-water pipe is used to ground electrical outlets, refer to "Installing the Ground Wire" section before cutting the pipe.

🏂 INSTALLING THE GROUND WIRE

NOTE: If your house plumbing is PVC, it would not be used as a grounding path, and this step should be skipped.

IMPORTANT: A copper or galvanized house cold water pipe is often used to ground electrical outlets in the home. Grounding protects you from electrical shock. The water filter housing may have broken this ground path. To restore connection, install an 18" long, 6-gauge copper wire across the filter, tightly clamped using UL approved ½"-1" bronze grounding clamps at both ends as shown. Zinc clamps should not be used on copper plumbing. Wire and clamps may be purchased separately from your local hardware store.

- Clean copper pipe and ends of wire with emery cloth. Bare wire is recommended. If insulated wire is used, it should be stripped ¾" at each end before cleaning with emery cloth.
- Attach bronze clamps to pipe. Tighten screws.
- Attach wire to clamps as shown. Tighten screws.





🏸 INSTALLATION ON WHOLE HOUSE MAIN WATER PIPE USING SOLDERED COPPER FITTINGS

Please note all drawings, pictures, colors and sizes are approximate for illustrative purposes only and may not exactly resemble the end product.

NOTE: Be sure to allow a minimum space of 1-1/2" to 2" under the filter for removing the sump.

NOTE: It is recommended that a shut-off valve be placed on both sides of the filter.

NOTE: It is recommended that a Whole House Leak Detector Smart Valve (CQE-WH-03064) be placed directly upstream of your household filter to prevent water damage.

Minimum Materials Needed

- 2 sweat adapters, ¾" or 1" NPT x sweat (sweat end to fit existing pipe)
- Lead-free solder and flux
- Soldering torch

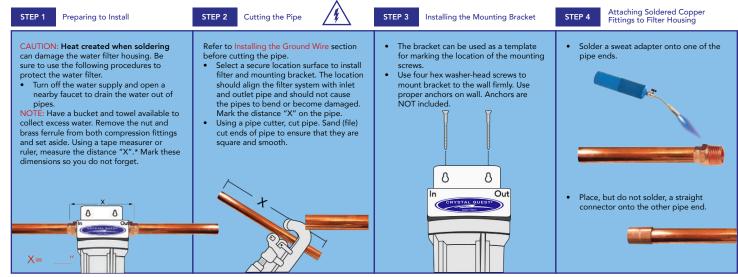
Cold Water

Line

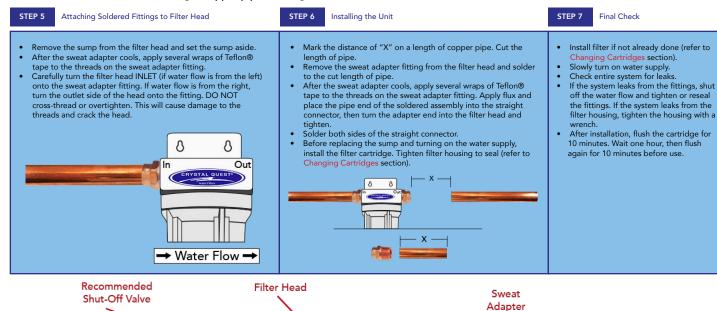
Straight

Connector

- Tubing cutter Thread seal tape
- Sandpaper or emery cloth open end (to fit sweat adapter) or adjustable jaw wrench



*Measure to shoulder inside of fittings. Copper pipe butts against this shoulder.



8

In

Sweat

Adapter

Inlet

δ

Out

Outlet

Cold Water

Line



${\mathscr S}$ INSTALLATION ON HOUSE MAIN WATER PIPE USING THREADED PIPE FITTINGS

Please note all drawings, pictures, colors and sizes are approximate for illustrative purposes only and may not exactly resemble the end product.

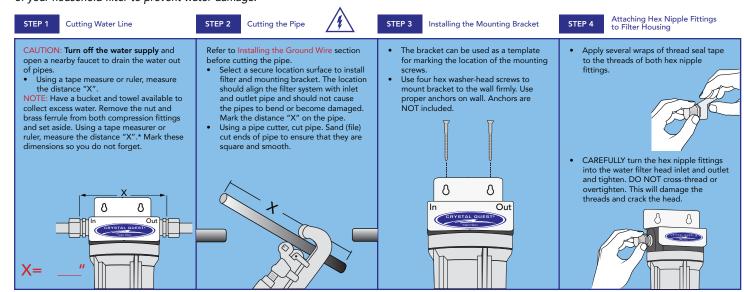
NOTE: Be sure to allow a minimum space of 1-1/2" to 2" under the filter for removing the sump.

NOTE: It is recommended that a shut-off valve be placed on both sides of the filter.

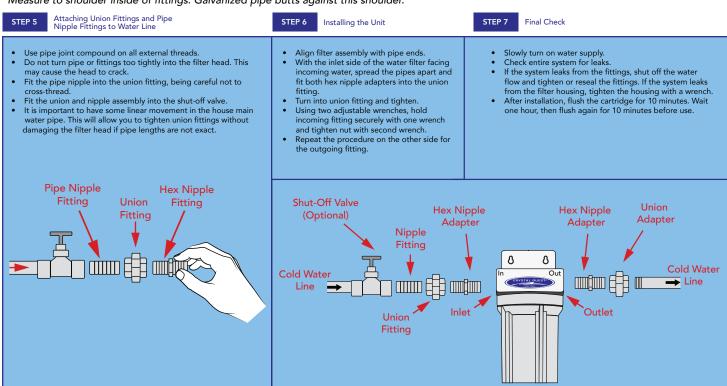
NOTE: It is recommended that a Whole House Leak Detector Smart Valve (CQE-WH-03064) be placed directly upstream of your household filter to prevent water damage.

Minimum Materials Needed

- Pipe threading tool
- Pipe wrenches
- Pipe joint compoundUnion fittings and pipe
- nipples
- Pipe cutter
 Thread seal tape

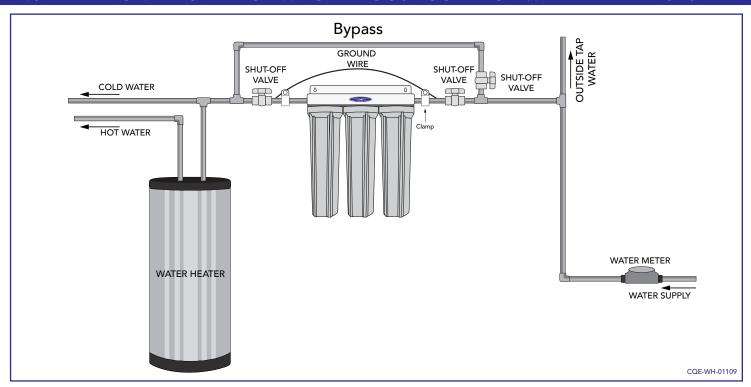


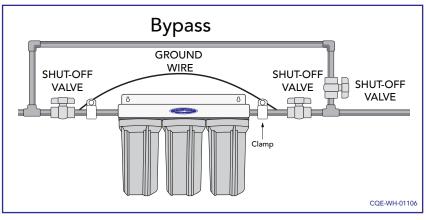
*Measure to shoulder inside of fittings. Galvanized pipe butts against this shoulder.

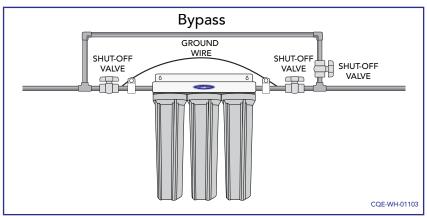




INSTALLATION DIAGRAM OF WHOLE HOUSE COMPACT WATER FILTER SYSTEM







Please note all drawings, pictures, colors, and sizes are approximate for illustrative purposes only and may not exactly resemble the end product.

WATER LEAKS

Your system has been tested before leaving the factory. In the unlikely event of a fault, small leaks sometimes do occur as a result of incorrect assembly or abuse. The following tips may be helpful:

- IMPORTANT: DO NOT CROSS-THREAD OR OVERTIGHTEN. If cross-threaded, do not put unit into service.
- Depending on the positioning of the filter and the temperature of the incoming water and air, condensation on the outside of the filter housing may occur, resulting in a frosted appearance of fine water droplets on the surface. This does not mean that there is a leak in the system. The remedy is to either insulate the area around the filter or reposition unit.
- Always ensure that sump top is snapped into sump by being pushed in.
- Always ensure that sump ring is screwed fully onto the sump top. This is essential both for the internal seal and the housing seal.
- In the event of a leak, carefully examine its source. Water from a leak may run along the pipe work; it may drip or collect some distance from the actual location of the leak.
- Note: It is recommended that a Whole House Leak Detector Smart Valve (CQE-WH-03064) be placed directly upstream of your household filter to prevent water damage.



CHANGING CARTRIDGES

You should change your cartridge when the water flow is noticeably reduced or as needed. Depending on the consumption and condition of your water, cartridges may need to be changed more frequently than indicated. Use the time table below as a quide.

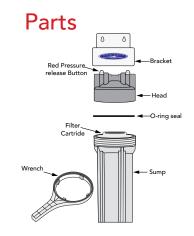
Sediment every 12 months
 GAC or Carbon Block every 12 months
 SMART every 18-24 months

I. Turn off the nearest shut-off valve on the water supply pipe to the filter. Water must be shut off from an upstream valve.

- 2. Press the red pressure release button to release pressure.
- 3. Remove the housing using the wrench tool and discard used filter. Wash the filter sump with mild soap and warm water. Do not use harsh cleaners or hot water.
- 4. Inspect the filter housing O-ring. Make sure it is lightly lubricated with any non-petroleum oil (do not use coconut oil). Be sure the O-ring is completely seated in the groove. The O-ring should be replaced as needed or if it becomes damaged.
- Place a new cartridge into the sump, making sure it is centered and completely seated on the bottom seal.
- Reinstall the filter sump to the unit head. Use the sump wrench to tighten. DO NOT OVERTIGHTEN OR CROSS-THREAD.
- 7. Slowly turn on water to the filter by using the upstream shut-off valve.
- 8. Press the red pressure release button to remove trapped air.
- 9. After installation, flush the cartridge for 10 minutes. Wait one hour, then flush again for 10 minutes prior to use.

IMPORTANT:

Before first use, run water through cartridge 10 minutes to prepare unit for use. Be sure to allow a minimum space of 1.5"-2" under the filter for removing the housing(s) to change the cartridge(s).



CARTRIDGE ORIENTATION/ARRANGEMENT

Refer to labels on filter housing(s) for orientation and arrangement of the cartridges. For more information, contact your Crystal Quest® Dealer or technical support at service@crystalquest.com.

TO ORDER REPLACEMENT CARTRIDGES

Item No. CQE-RC-04014 2-7/8" x 20" 5-Micron Carbon Block Filter Cartridge Item No. CQE-RC-04015 2-7/8" x 20" 5-Micron Sediment Reusable Pleated Filter Cartridge 2-7/8" x 20" Multi Stage PLUS Filter Cartridge Item No. CQE-RC-04016 Item No. CQE-RC-04026 2-7/8" x 9-3/4" Compact Whole House Filter Cartridge $4-5/8" \times 9-3/4"$ Multi Stage PLUS Filter Cartridge Item No. CQE-RC-04027 4-5/8" x 20" Multi Stage PLUS Filter Cartridge Item No. CQE-RC-04030 Item No. CQE-RC-04033 4-5/8" x 9-3/4" 5-Micron Sediment Reusable Pleated Filter Cartridge Item No. CQE-RC-04034 4-5/8" x 20" 5-Micron Sediment Reusable Pleated Filter Cartridge Item No. CQE-RC-04035 4-5/8" x 9-3/4" 5-Micron Carbon Block Filter Cartridge Item No. CQE-RC-04036 4-5/8" x 20" 5-Micron Carbon Block Filter Cartridge

To order replacement cartridges, contact your Crystal Quest® Dealer or visit us at: CrystalQuest.com, or call 1-800-934-0051

COMPACT WHOLE HOUSE WATER FILTER SYSTEMS MODEL NUMBERS

(1)	Single Whole House 2.5" x 20"	CQE-WH-01101	Replacement Cartridges: CQE-RC-04016
(2)	Double Whole House 2.5" x 20"	CQE-WH-01102	Replacement Cartridges: CQE-RC-04014, CQE-RC-04016
(3)	Triple Whole House 2.5" x 20"	CQE-WH-01103	Replacement Cartridges: CQE-RC-04014, CQE-RC-04015, CQE-RC-04016
(4)	Single Big Heavy Duty 5" x 10"	CQE-WH-01104	Replacement Cartridges: CQE-RC-04027
(5)	Double Big Heavy Duty 5" x 10"	CQE-WH-01105	Replacement Cartridges: CQE-RC-04035, CQE-RC-04027
(6)	Triple Big Heavy Duty 5" x 10"	CQE-WH-01106	Replacement Cartridges: CQE-RC-04027, CQE-RC-04033, CQE-RC-04035
(7)	Single Big Heavy Duty 5" x 20"	CQE-WH-01107	Replacement Cartridges: CQE-RC-04030
(8)	Double Big Heavy Duty 5" x 20"	CQE-WH-01108	Replacement Cartridges: CQE-RC-04036, CQE-RC-04030
(9)	Triple Big Heavy Duty 5" x 20"	CQE-WH-01109	Replacement Cartridges: CQE-RC-04030, CQE-RC-04034, CQE-RC-04036
(10)	10" Stainless Steel 2.5" x 10"	CQE-WH-01100	Replacement Cartridges: CQE-RC-04026



IMPORTANT NOTICE:

All Crystal Quest® water filtration systems should be installed by a qualified, licensed plumber. Not using the service of a licensed plumber will
void warranty. Crystal Quest® assumes no liability whatsoever for systems improperly installed or those installed by anyone other than a
qualified, licensed plumber.

Plumber's Name	Address	Phone

(Please record the information above for your future reference.)

ONE-YEAR LIMITED WARRANTY

CRYSTAL QUEST® warrants your CRYSTAL QUEST® Whole House Compact System for one year from the date of purchase against all defects in materials and workmanship when used in compliance with the manual. This warranty does not include replacement cartridges unless defective upon receipt. CRYSTAL QUEST® disclaims all implied warranties including, without limitation, warranties of merchantability and fitness for a particular purpose. If for any reason the product proves to be defective within one year from the date of purchase, please call for assistance. This warranty gives you specific legal rights and you may have other legal rights which vary from state to state. CRYSTAL QUEST® assumes no responsibility for incidental or consequential damages, for damages arising out of misuse of the product, or the use of any unauthorized attachment. Some states do not allow the exclusion or limitation of implied warranties or incidental or consequential damages; therefore, the above limitations or exclusions may not apply to you. Should service be required during or after the warranty period or should you have any questions regarding how to use your CRYSTAL QUEST® Whole House Compact System, please contact out Technical Support Department at service@crystalquest.com, Monday through Friday, 9 AM to 5 PM Eastern Time.

KEEP THIS MANUAL FOR FUTURE REFERENCE AND UNIT MAINTENANCE

Online warranty information http://crystalquest.com/warranty.htm

Product design is subject to change without notice.

For further assistance, contact your Crystal Quest dealer or visit us at www.crystalquest.com

To view the latest edition of the Whole House Compact System Guide, visit CrystalQuest.com