



Crystal Quest® Voyager Series Inline Water Filter Systems INSTALLATION AND OPERATION GUIDE



ONLINE WARRANTY INFORMATION
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, installation hardware and tubing.
- The system should be installed to meet local, state, and federal plumbing codes and health department rules and regulations. These guidelines must be followed as the system is installed.
- All Crystal Quest® water filtration systems should be installed by a qualified, licensed plumber. Not using the service of a licensed plumber may void warranty. Crystal Quest® assumes no liability whatsoever for systems improperly installed or those installed by anyone other than a qualified, licensed plumber.
- Check with your local public works department for plumbing codes.
- Do not use non-Crystal Quest® replacement cartridges.
- Do not use non-Crystal Quest® parts or modify/tamper with unit.

**Inline application includes installation in Refrigerators, Ice Makers, Water Fountains, RVs, Commercial Inline, and is used as a pre-treatment for ionizer machines and others.*

CAUTION/SAFETY GUIDELINES

- Use the system on a potable (safe-to-drink) COLD water supply only. Do not use on hot water.
- System is recommended for indoor use only. Avoid low or freezing temperatures at all times.
- Unit should be installed downstream of working pressure reducing valve.
- Install leak stopper to avoid water damage.
- Change the cartridges routinely. If water flow slows or stops, replace cartridges.
- Housing 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.
- 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 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.
- Do not cross-thread fittings or housings. If cross-threaded, do not keep unit in service.
- 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 responsibility for property damage.
- Refer to this guide and/or other labels for more information.



INLINE SYSTEM MODELS

Voyager Inline (Non-Stationary)



Voyager Mega Inline (Stationary)



OPERATING SPECIFICATIONS

Pressure Range:	30-60 psi (2.1-4.1 bar)
Temperature Range:	40-85°F (4.4-29.4°C)
Optimum Service Flow:	0.30 gpm at 60 psi (1.1 lpm at 4.1 bar)

*NOTE: Installation is the same for all Voyager models and sizes.

Voyager Disposable Inline



SYSTEM CONNECTIONS FOR INLINE FILTER

Determine system connection before beginning installation.

- Systems that have no pressure regulator inline (Illustration 1)
- Systems that insert directly into water line (Illustration 2)
- Systems that need to extend the feed line (Illustration 3)
- Systems that need to use optional ball valve to adjust or control water flow (Illustration 4)

Illustration 1

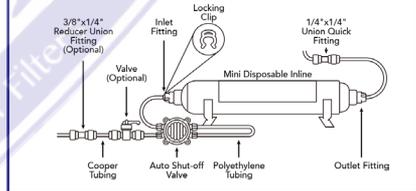


Illustration 2



Illustration 3

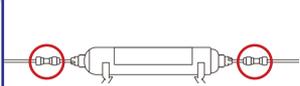
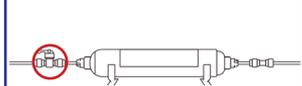


Illustration 4



*NOTE: Installation is the same for all Voyager models and sizes.



CONNECTING SYSTEM TO REFRIGERATOR/APPLIANCE

- **Remove red plugs.**
- The filter is to be connected into the 1/4" OD tube that feeds water to the refrigerator/appliance. If your refrigerator/appliance water supply line is 3/8", use a 3/8" x 1/4" reducer union fitting (see Illus. 1) or consult your plumber.
- Shut off water supply to the refrigerator/appliance.
- Cut feedwater tube (see Illus. 5).
- Insert feedwater tube from refrigerator/appliance into the inlet fitting of the water filter head. Push up to the tube stop and reattach locking clip.
- Push tube from the water line into inlet fitting of water filter head. Push up to the tube stop and reattach locking clip.
- Use of quick connect fittings and/or ball valve is optional.

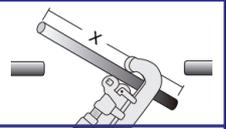
NOTE: Adjustment to Water Flow

Adjustment to water flow may be needed to prevent pressure buildup if the flow is high or irregular. Turn the knob on the control valve fitting for adjusting water flow to the filter or to totally shut off water flow to filter.

- Before using, run water through filter 5-10 minutes.

Cutting Pipe

- Using a pipe cutter, cut pipe.
- Sand (file) cut ends of pipe to ensure that they are square and smooth.



Plastic Tubing

- Cut tube ends square and straight. Do not deform tube (i.e., cause tube to compress its diameter so it is no longer round).
- Avoid sharp changes in direction when routing tubing. Sharp turns cause tubing to flex and deform, which reduces its flow capacity and may increase lateral stress on the fittings, causing leakage.

Illustration 5



CONNECTING TUBING

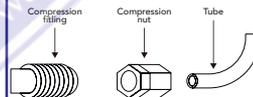
Quick Connect Fitting



Fittings consist of two parts: a **body** and a **collet**. Make sure outer surface of tube is clear of marks or scratches for a length equal to twice tube diameter. This allows O-ring to seal properly against tube.

- Remove locking clip from collet.
- Push tube through collet into body until it seats firmly at bottom of fitting (Fig A, B).
- To remove a tube, push and hold collet against body while pulling tube out (Fig C).

Compression Adapter (optional)

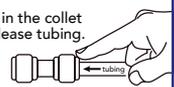


1. Slide compression nut onto the end of tubing.
2. Connect it to compression adapter and tighten the compression nut securely.

To Disconnect Tubing

If you need to remove the tube from the quick fitting, turn off the water and push the collet (ring of the connector) square against the fitting. While holding the collet in this position, pull the tube out. If you have inserted the tube and need to remove it, be sure to cut 1/2" of tube from the end before reinserting. This will help prevent leaking.

Push in the collet to release tubing.



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:

- 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 it.
- Always ensure that the sump is screwed fully into 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).
- Leaks between **base and housing**. Turn off faucet and unscrew base of housing. Check to make sure both O-rings are clean and undamaged. Replace if necessary. Lubricate O-rings with any non-petroleum oil.
- Leaks at the **quick fittings** are usually due to the tubing not being pushed fully into the fitting. Remove



WATER LEAKS CONT.

the tubing, cut off an inch of tubing with a sharp knife and reinsert into the quick fitting. Be sure cut is square with no burrs. Ensure that the quick fit collet is in position. When fitted correctly, the tube should not pull out of the fitting (unless the collet is pushed in at the same time to release the tubing).

- If there are leaks at the **compression fittings**, make sure that the components are fitted correctly and that the compression nuts are fully tightened.
- If there is a leak from the water **filter inlet and outlet**, unscrew fitting, wrap thread seal tape around it, and screw it back. Do not cross-thread.
- If there is a leak, make sure the working pressure regulator is inline and the psi is not exceeding 60.

TROUBLESHOOTING

Water Appearance

- **WHITE water.** When a new water filter or cartridge is installed or after cleaning, the water may appear milky or white for a while. It is harmless and will soon clear. White water is due to micro bubbles of air. On standing, the water will become clear as the bubbles move upwards. Water in some areas of the country has a high level of lime or calcium. The Redox inside the unit changes the substances into harmless elements which react with air and temperature.
- **BLACK water.** When a new water filter or cartridge is installed or after cleaning, very fine black particles may appear in the water. This is normal and the particles are harmless carbon. Flushing the system for a few minutes by turning the tap on and off rapidly several times will help to clear this.
- **COLORED water (often RED).** Water in some areas may be high in dissolved iron and this can pass through the filter. When the water is left to stand, dissolved iron gives a red or brown color as the iron oxidizes (rusts). In very severe cases, you should contact Crystal Quest® for specialist advice. Ordinary particulate rust in the water will be removed by the system.

Water Taste

Filtered and treated water tastes much better than unfiltered water. But there are also some who cannot detect any change. Others find that the treated water tastes "different" but they will soon become accustomed to the taste of the filtered water. A major factor affecting taste may be the natural composition in a particular area. There can be considerable local differences in the mineral content of the water, for example.

- **Fish odor and sour taste water.** System is not flushed properly. Run the water for five minutes and shut off for five minutes. Do three or four times consecutively. Some areas might have hard water. In very severe cases, you should contact Crystal Quest® for specialist advice.
- **Chlorine taste.** The "natural" taste of an area's water is often masked by the presence of chlorine used in the treatment process. If the chlorine taste consistently reappears, the cartridge should be replaced. If any strong objectionable taste occurs after prolonged standing or during infrequent use, flush the system by running water for five minutes.
- **Bad taste and/or odor.** The cartridge needs replacing.

No Water

- Check to see if the main water is on.
- Check that all the tubes are connected correctly.
- Check direction of water flow.

Low Water Flow

- Check that you have removed all the shrink wrap from new filter cartridge.
- During periods of high water demand, filter may experience low water flow and pressure. Additionally, running other appliances on the same line that connects your system may starve the unit of water.
- Reduction of water flow sooner than normal may be an indication of a high volume of sediment in your water. Add a sediment pre-filter, backwash the system, and/or replace the cartridge.
- The filter system needs a minimum pressure of 20 psi to work. If the pressure is inadequate, a pump may be needed. Contact Crystal Quest® or a plumber for assistance.

High Water Flow

- If the water flow has excessive force, this will lead not only to splashing at the tap but also to lower performance from the filter. Reduce the flow rate to the minimum acceptable. For optimum performance, a flow rate of 0.3-0.75 gpm is suggested.

This may vary depending on the model.

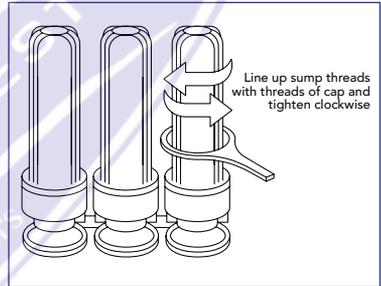
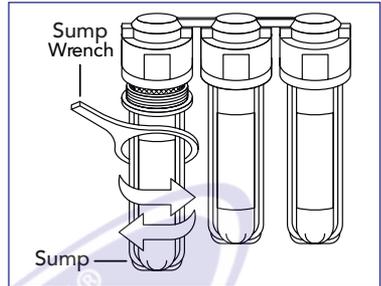


FILTER CARTRIDGE REPLACEMENT

Stationary and Non-Stationary Filters

Use a drip pan to catch any water that may spill when the filter housings are removed.

- Turn off faucet. Close the water line that feeds the filter.
- Unscrew the cap and sump of the housing by using the sump wrench that came with the filter. Turn counterclockwise. Be careful; the sump is most likely filled with water. Release any pressure in the water line by turning on the cold and hot-water faucets.
- Empty excess water into sink. Set top of filter housing aside.
- Pull the used filter cartridge from the base and discard.
- Clean the cap and sump of filter housing (inside of the sump) with hot, soapy water and a soft cloth. Rinse it very well. Do not use harsh detergents, abrasive cleaners, or wire brushes, as they may damage the system. (Remember that you turned the water off at the sink you're working on.)
- Set the base of filter on counter (stationary models). Remove shrink wrap.



NOTE: Make sure both O-rings are present on the filter housing. Also make sure to lubricate O-rings with any non-petroleum oil (do not use coconut oil).

- Check the O-ring to ensure that it is positioned properly in its groove. Screw top of filter housing (sump) onto base, turning it clockwise. Tighten with sump wrench until very snug. Do not cross-thread or over-tighten.
- Open the water valve slowly and fill the filter.
- Turn off the faucets and check the unit for leaks.
- Run the water for 5-10 minutes to clear out carbon particles that may have settled in the cartridge. This should be repeated as necessary.

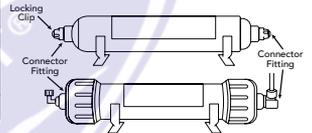
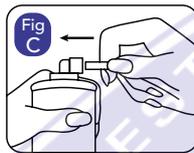
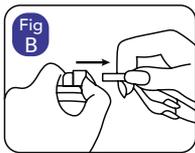


MINI/JUMBO FILTER REPLACEMENT

These systems do not have replacement cartridges. Filter systems need to be replaced. Mini Inline Systems generally last 18-24 months* and Jumbo Inline Systems generally last 24-36 months*.

Existing tubing and setup can be used with the new filter. Follow steps to replace filter:

- Remove locking clip from quick fitting (Fig A).
- Push and hold collet against body while pulling tube out (Fig B).
- Loosen the connector fitting counterclockwise.
- Push tubing through collet into new filter until it seats firmly at tube top (Fig C).
- Refit the locking clip.
- Turn on water and check for leaks.
- Flush 4-5 gallons of water through filter before use.

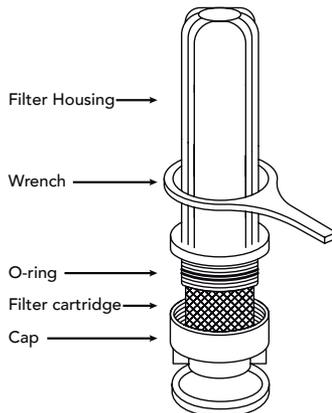


*Depending on the consumption and water conditions.

TO ORDER REPLACEMENT CARTRIDGES

Item No. CQE-RC-04000	2-7/8" x 9-3/4"	5-Micron Carbon Block Filter
Item No. CQE-RC-04001	2-7/8" x 9-3/4"	5-Micron Sediment Reusable Pleated Filter
Item No. CQE-RC-04002	2-7/8" x 9-3/4"	SMART PLUS Filter
Item No. CQE-RC-04055	2-7/8" x 9-3/4"	UF Membrane Filter
Item No. CQE-RC-04006	2-7/8" x 9-3/4"	Fluoride Filter
Item No. CQE-RC-04049	2-7/8" x 9-3/4"	Fluoride/SMART Filter
Item No. CQE-RC-04007	2-7/8" x 9-3/4"	Nitrate Filter
Item No. CQE-RC-04050	2-7/8" x 9-3/4"	Nitrate/SMART Filter
Item No. CQE-RC-04008	2-7/8" x 9-3/4"	Arsenic Filter
Item No. CQE-RC-04051	2-7/8" x 9-3/4"	Arsenic/SMART Filter

Note: This inline system contains cartridges which must be replaced at regular intervals to maintain proper performance. Use only factory approved cartridges.





ONE-YEAR LIMITED WARRANTY

CRYSTAL QUEST® warrants your CRYSTAL QUEST® Voyager Inline Water Filter System for one year from the date of purchase against all defects in materials and workmanship when used in compliance with the Installation and Operation Guide. 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, so 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® Voyager Inline Water Filter System, contact technical support at service@crystalquest.com, Monday through Friday, 9 A.M. to 5 P.M. 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 Voyager Inline Water Filter System, visit CrystalQuest.com

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