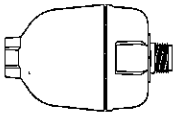
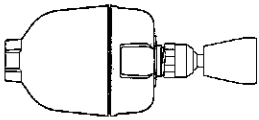
# RAINSHOW'R®

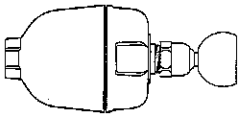
**This Instruction Guide and Performance Data Sheet is applicable to models:**



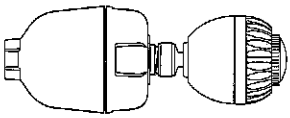
**CQ-1000NH**



**CQ-1000DS with Whedon Fixed Action Head**



**CQ-1000BN with Rainshow'r Bernoulli Head**



**CQ-1000MS with Shower Pro Massage Head**

READ ALL INSTRUCTIONS BEFORE USING.
(Retain for future reference)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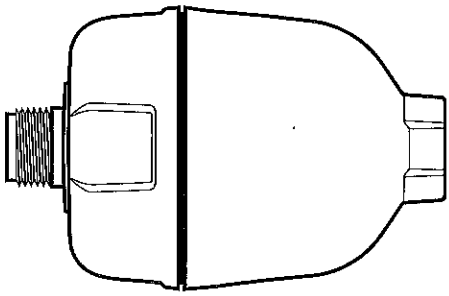
***PROUDLY MADE IN THE U.S.A.***



## Rainshow'r CQ-1000

The Rainshow'r® CQ-1000 promotes healthier and younger looking skin and more manageable hair. Chlorine is reduced by the use of patented KDF 55 media that we have specially enhanced for more effective performance. The shower filter was tested and certified by Water Quality Association according to NSF/ANSI 177 for the reduction of Free Available Chlorine. You may go to the Rainshow'r website at www.rainshowermfg.com or visit the WQA website at http://www.wqa.org/goldseal/25.html for more information.

Note: This product contains non-toxic granular filter media which is produced within the regulations of "The Drinking Water Act" (PL 99-399 of June 19, 1986). Some of the very smallest grains may shake out during shipping and handling. This is normal and does not mean that the filter is defective or damaged in any way. When the filter is wet, the grains are held together and are not flushed out by the water flow while the unit is in operation. We have placed a plastic plug on the inlet on the shower filter to minimize this problem; please remove this plug before trying to install.

## Features

- Our special Crystalline Quartz technology. Specialty cured crystals act upon the water to create a softer, energy-enhanced shower.
- When used with the best flow-reduction showerheads for optimal water delivery, you will save water and energy costs and enjoy the best shower experience possible.
- The CQ -1000 Filter is designed to provide long lasting performance for a variety of water conditions.
- A cleanable sediment trapping screen for longer cartridge life (see maintenance).

## Instructions for Installation:

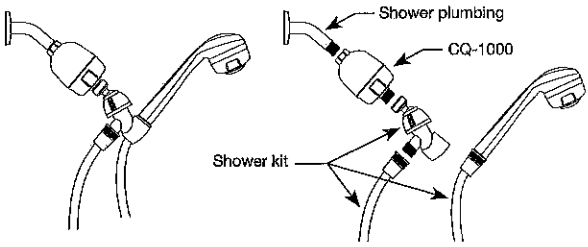
Remove existing showerhead using an adjustable wrench if necessary. NOTE: If your shower arm has an integral ball joint, it may be replaced with a standard 1/2" shower arm or an adapter may be used. Purchase correct adapter from a hardware or plumbing supply store with the help of the following table:

| Plumb Shop Adapter Part # | Shower Brand | Approx. Thread Diam. | # Threads Per Inch |
|---|---|---|---|
| PS 2592 | American Std. | 1 (one) | 16 |
| PS 2593 | Price Pfister | 1 (one) | 20 |
| PS 2596 | Gerber | 1-1/4 | Unknown |

**This product must be used in compliance with state and local laws and regulations.**

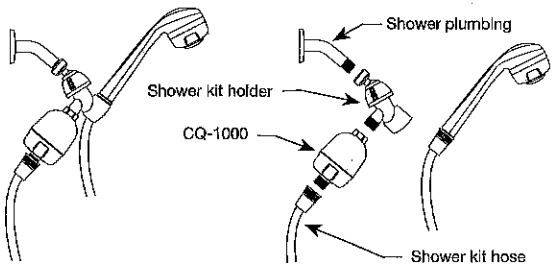
## Instructions for Installation:

There are two installation options when using the CQ-1000 with handheld shower kits:




**OPTION A**

Install the CQ-1000 between the shower plumbing and the shower kit.




**OPTION B**

Install the CQ-1000 onto the shower kit holder and the shower kit hose.

## Installing Filter Cartridge

1. Unscrew housing cap from housing body. (Fig. 1)

2. Re-position two internal rubber o-rings if they are dislodged. Place small o-ring into the groove in the filter housing body. Place large o-ring into groove in housing cap. Be sure the o-rings and the grooves they are placed into are clean and free of any grains of filtering media.

3. Place filter cartridge into housing body. Screw the top and bottom parts together. (Fig. 2–4) Hand tighten only. (External black body ring is decorative only)

4. If this unit is equipped with a red plastic thread protector or washer retainer at the inlet of the housing body, remove and discard. Now attach the filter by threading unit onto the shower water pipe. Firm hand tightening without plumber's tape should be sufficient for leak free operation. (Fig. 4–5) DO NOT OVER TIGHTEN.

5. Allow the water to run through the filter for 30 to 60 seconds before the first use.

6. If this CQ-1000 is not equipped with a Rainshow'r showerhead, you may use any good quality showerhead or a hand held shower unit. Attach the flexible hose part of a hand held unit to the outlet threads of the filter. Follow the manufacturer's instructions for any other assembly required. Please use only a low flow showerhead manufactured since 1993. It should be a high quality showerhead not an economy plastic showerhead. It should conform to the requirements of the US Energy Policy Act of 1994. NOTE. Maximum chlorine removal is achieved with a water flow rate of no more than 2.5 gpm at 80 psi. At this flow rate, sufficient water contact time with the media is achieved.

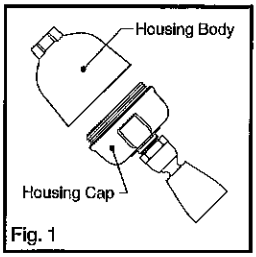


Fig. 1

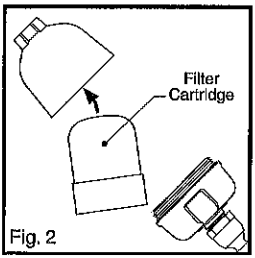


Fig. 2

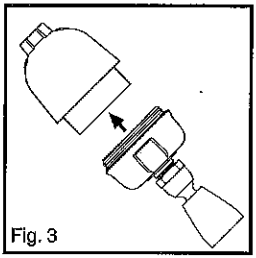


Fig. 3

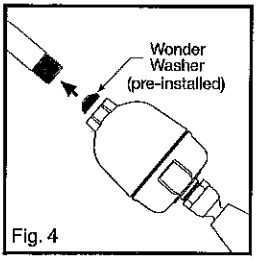


Fig. 4

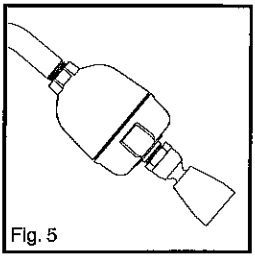


Fig. 5

## When to Change Your Cartridge and Housing Body

The CQ-1000 shower filter should remove unhealthy free chlorine for a period of 6 to 7 months for the average family of four. Chlorine levels vary from city to city. If you live in an area where the source water contains high levels of suspended solids or where scale buildup in pipes is excessive, you may experience an early reduction in water flow. This may be an indication that you need to replace the cartridge more frequently than the recommended 6 to 7 months. For best results the housing body should be replaced every 3 years or as needed.

## Sediment Screen Maintenance (Fig. 6 &7)

This unit comes with a sediment-trapping screen located in the neck of the body at the inlet. This screen will trap large particulate matter that may be present in your water and should be cleaned out periodically. To clean the screen, remove the CQ-1000 from the shower arm. Open up the unit and remove the cartridge. With gentle pressure with a finger or blunt object dislodge the screen, rinse out screen and replace. It may not be necessary to clean the screen often. The level of particulate matter in your water determines how often this should be done. Put cartridge back into housing body and reconnect unit to shower arm. IMPORTANT: To assure that no grains of filtering media are introduced into housing, clean o-rings and cartridge and drop the housing body onto the cartridge then screw on the housing cap until tight. (Fig. 2–3)

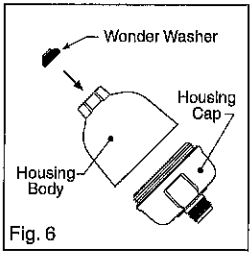


Fig. 6

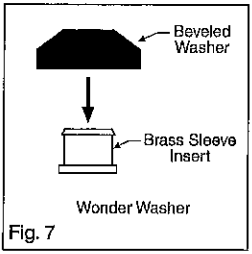


Fig. 7

## Filter Media

**KDF 55**

There are 15 ounces (466 grams) of KDF media in each CQ-1000 cartridge. As chlorinated water flows through the filter cartridge, the two dissimilar metals in KDF, (copper and zinc), create a galvanic or electrolytic reaction which causes the two chlorine ions to combine with calcium in the water to form a harmless chloride. KDF does not hold the chlorine, it changes chlorine from an element to a harmless compound, which flushes out of the filter. KDF is a non-toxic granular filter media which is produced within the regulations of "The Drinking Water Act" (PL 99-399 of June 19, 1986.)

**Crystalline Quartz**

The CQ-1000 is the world's first shower filter to utilize specially treated virgin quartz to 'energize' the shower experience by reducing the surface tension of the water. This increases the lathering capacity of your soap and shampoo. Quartz does not soften water but gives the water a lighter 'feel', similar to the feeling of softened water. Our natural crystals come to us directly from two North American high-energy crystal mines. We use specially filtered water to clean our crystals and sun dry them for maximum purity.

## Specifications for Housing and Filter Cartridge

Maximum pressure.....100 psi
Minimum pressure.....30 psi
(Filters are available for Low and Medium pressure needs.)
Overall weight.....20 oz... 567 grams
Housing material .....ABS/PC
Maximum water temperature .....120 F (49 C)
Dimensions.....3" x 4 3/4" 7.62 cm x 12.1 cm
Minimum water temperature .....40 F (05 C)
Capacity .....25,000 gallons

## CQ-1000 Safety Feature

The CQ-1000 has been designed to prevent either the cracking of the filter body or of thread separation in the event the user fails to change a cartridge when clogged with rust and sediment and of a failure to replace on schedule.

If the cartridge is clogged and flow rate Is reduced there will be a back-flow toward the inlet washer forcing it aside and allowing water to flow into the body which should always be dry when operating correctly. That will result in a leak or drip where the cap and body screw together. That leak is a safety drip to release water pressure and to prevent breakage. It is also a signal that the cartridge is past changing time.*

## Let's Talk About Recycling

Rainshow'r cannot reuse the media but encourages you to return your used cartridge for complete recycling to be used in other industrial applications. We'd much prefer our products get a second life than end up in a landfill. The small amount of postage it takes to send it back is a contribution to the welfare of our planet. Please mail or ship the cartridge to:

GOOD EARTH RECYCLERS
P.O. BOX 2167
San Gabriel, CA 91778-2167

## Testing at Home for Free Chlorine

Chlorine testing using the OTO (standard swimming pool kit) or DPD test kits may incorrectly show a reading of little or no free chlorine reduction. The presence of iodine ions in the water will magnify the chloramine interference with the OTO or DPD procedure. (1) (2) The presence of chloramine used as a disinfectant in the water supply will also produce erroneous test results. When a municipality injects both chlorine and ammonia simultaneously into the water supply it produces chloramine. Chloramine reduces the free chlorine's ability to combine with organic matter in the water that produces potentially harmful trihalomethanes, THM's.

Because chloramine has less disinfecting ability than free chlorine, a higher concentration of chlorine is usually used to get the same bacteria kill rate (1). The chlorine remaining in the water, after it has combined with any harmful bacteria, is the free chlorine that the CQ-1000 removes. No KDF or carbon shower filter can remove 100% of the free chlorine. To get accurate readings of free chlorine levels it is better to use quality laboratory procedures such as the amperometric titration test method. Even under the best testing methods some amount of chlorine will be indicated.

**REFERENCES:** (1) Dr Frederick A. Amalfi Ph.D., Laboratory Director, Aquatic Testing & Consulting, Inc (2) 'Standard Methods of Examination of Water and Wastewater', American Public Health Association. 1975, 1985

Testing was performed under standard laboratory conditions, however, actual performance may vary based on water conditions. For further discussion of our free chlorine and combined chlorine comments, the following may be of some use. "This system has been tested by WQA according to NSF/ANSI 177 for reduction of free available chlorine. The concentration of free available chlorine in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 177. This system has not been evaluated for free available chlorine reduction performance in the presence of chloramines. Free available chlorine reduction performance may be impacted by the presence of chloramines in the water supply. Please contact your local water utility to determine if chloramines are used in treating your water."

## Limited Warranty

The manufacturer warrants the Rainshow'r CQ-1000 dechlorinating shower filter to be free from defects in materials and workmanship when installed, operated, and maintained in the manner instructed in the instruction sheet.

Filter housing and attached showerhead are warranted for one year from date of purchase. The filter cartridge is warranted for 90 days from date of purchase. The manufacturer will repair or replace any shower filter that fails to perform due to faulty material or workmanship. Items not covered under the warranty include damage due to misuse, improper maintenance, improper installation, excessive water pressure or temperature, freezing or general misapplication of filter's use and purpose. There are no warranties expressed or implied, other than those stated herein. We are not liable in any way for the damage arising from the misuse or misapplication of the product.

To make claims under this warranty, see your retailer or contact the distributor. To effect and validate the warranty, fill out and return the attached warranty card below within 15 days of purchase.

## Notice on Limitations

This filter is designed for use on potable systems only. The shower filter effectively reduces free chlorine only. It does not introduce anything harmful to the water, but it is not intended as a drinking water filter. Do not allow a wet cartridge to freeze. (An unused filter cartridge has an indefinite shelf life) Do not use any type of sequestering agent ahead of the media. Its effectiveness will be reduced when used on high-iron content municipal water systems that use chemicals such as polyphosphates.

System Tested and Certified by Water Quality Association according to NSF/ANSI Standard 177 for the Reduction of Free Available Chlorine.

Rainshow'r uses a number of shower heads, Hand-Held kits and water control devices. These are water delivery mechanisms only. They are not performance tested or certified by WQA. Only the filter is certified.

Replacement Element: RCCQ-A or RCCQ-PC

**Rainshow'r**
**Manufacturing Co., Inc.,**
421 South California St. - Suite D - San Gabriel, CA 91776
Mailing Address: P.O. Box 2167 - San Gabriel, CA 91778-2167
Tel: (800) 243-8775 - Fax: (626) 292-1454 - www.rainshowermfg.com
San Gabriel, CA 91776 U.S.A.

Keep this Instruction Guide and Performance Date Sheet for your future reference.

Date Purchased:_____Dealer:_____

Please affix the enclosed replacement reminder in a safe place such as inside your medicine cabinet door.

***PROUDLY MADE IN THE U.S.A.***



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