



Product Information Booklet Whole Home Filtration Appliance CWL-1035 LTD

Booklet includes:

- Complete Product Category of CWL Series - Whole Home Filtration
- Tearsheet on Individual System with Technical Specifications
- Media Replacement specific to this unit
- Compliances
- Media/Filtration Removal and Capabilities



EWS, INC. and Environmental Water Systems A Complete Line of Water Filtration Product from Sink to Whole-Home

Applicable Water Filtration Available Based on Water Conditions and Consumer Needs and/or Preferences:

Drinking Water Filtration Systems
Reverse Osmosis
UV Disinfection
CWL Series of Whole Home Filtration Appliances
EWS Series of Whole Home Filtration & Physical Conditioning
Softener Series
pH Balancing
Iron Removal
and more...

■ Municipally-Treated ■ Well Water Applications ■ Residential ■ Commercial ■ Industrial

ALL FILTRATION PRODUCT MANUFACTURED AND ASSEMBLED IN THE USA





CWL Series of Whole Home Water Filtration Appliances

Item Number & Description

Media Kit Replacement Codes

Units to be installed at municipal main water supply or well water of known quality. Filtration only.



CWL-1054

10x54 tank with 11/2 cu.ft. of High Grade (GAC) Granular Activated Carbon Media for removal of Chlorine and Volatile Organic Compounds. Filtration to every sink, cooking, drinking, showers, baths; for all uses. Years between media replacement and maintenance.* Automatic backwashing, digital timed valve with dual-port bypass. 15 gpm on 3/4 to 1" service lines.

POE-4

Larger Residential/Comm'l/Water Usage and/or Preferred Unit on Well Water of Known Quality



CWL-1354

13x54 tank with 21/2 cu.ft. of High Grade (GAC) Granular Activated Carbon Media for removal of Chlorine and Volatile Organic Compounds. Filtration to every sink, cooking, drinking, showers, baths; for all uses. Years between media replacement and maintenance.* Automatic backwashing, digital timed valve with dual-port bypass. 15 gpm on 3/4 to 1" service lines.

POE-5



CWL-1354-HF

Same as above CWL-1354 but with a 1" digital high flow (2750) valve (up to a 22 GPM) for use on 1" to 1 1/4" main service. Does not include bypass.

POE-5



CWL-1354-11/2"

Same as above CWL-1354 but with a 1 1/2" digital (2850) valve (up to a 50 GPM) for the proper application on a 1 1/2" main service. Does not include bypass.

POE-5

Smaller Unit Specifically Designed for Condo/Townhome/Space Limited Applications



CWL-1035 LTD

10x35 tank with 1 cu.ft. of High Grade (GAC) Granular Activated Carbon Media. Same whole home filtration, flow rates up to 15 gpm and digital valve with bypass, for 3/4 to 1" service lines. Compact size measuring only 44" tall installed.

POE-3

Know your water quality, municipally-treated or well water, and the proper applications and specifications.

- See GAC media reference chart for removal capabilities of Chlorine and VOC's.
- Can be combined with other product pre- and post unit(s) for specific removal applications.

All completely assembled appliances include the following standard features:

Specified fiberglass tank with stainless cover (plastic dome on 1354 series, all plastic on 1035), complete valving with lower filter screen, dual-port bypass and male yoke (CWL-1035,-1054,-1354 only), specified GAC media kit, riser with lower screen and complete service guide with installation and use instructions.



The CWL Family of Whole Home Filtration Appliances



CWL-1035 LTD
Condo/Townhome
Space Limited



CWL-1054
Standard Home
Unit up to 1" main



CWL-1354
Larger Home/Usage
Unit up to 1" main



CWL-1354-HF
Application
1"- 1 1/4" main



CWL-1354-11/2
Application
with 1 1/2" main

The Easy & Correct Way To Select The Proper System
on municipal water or well water of known quality*

CWL-1054

Standard unit for up to 3 baths, up to 4 people, and one water heater on 3/4"-1" service line.

CWL-1354

Upgraded unit for 3 or more baths, 4 or more people,
and/or multiple water heaters on 3/4"-1" service line.

CWL-1354-HF

Any application having 1" - 1 1/4" service line requiring greater flow rates.

CWL-1354-11/2"

Any application having 1 1/2" service line requiring greater flow rates.

CWL-1035-LTD

Specialty unit, measuring only 44" tall for a service or utility area or crawl space of limited height. Perfect for townhomes, condos, vacation homes and part time residences up to 3 baths, up to 4 people, and one water heater on 3/4"-1" service line.

Units available to suit many applications with larger valving available for larger water services.

Links; go to : www.ewswater.com/techandspec.html

- Service Guides for the proper set-up, install and start-up of all systems and helpful schematics for planning your next specification and installation.
- How To Determine Your Line Size.
- *Guide for the Private Well Owner for the proper testing of your water to determine the proper course of action. Well Water must be independently and completely tested.
- Complete catalog information and tearsheets on all product available.



Highlights of the CWL Series of Whole Home Water Filtration Appliances



CWL Filtration:

- Clean, healthy, quality water from every faucet in your home, every day.
- Better tasting, chlorine free water in your home.
- Healthier for oral intake (drinking) and as importantly, absorption and inhalation (from all other daily uses - washing, bathing, showering, brushing teeth, etc...)
- Clean, healthy, quality water - great for drinking, luxury bathing, steam, sauna, shower systems, cooking, and all uses.
- Healthier skin, hair and body systems.
- Natural water balance.
- High grade Granular Activated Carbon (GAC) filtration media.
- Minimal system maintenance required, 7 to 10 years prior to change out of filtration (GAC) media.
- Proprietary Digital Valve Technology with automatic backwash (not a brine) provides years of trouble-free operation. Our most efficient valve yet, uses the power draw of a doorbell and is easy to install and set.
- High flow rates to accommodate most any application.
- CWL units backwash and self clean. A great appliance for second homes, vacation homes or any residences. Leaving sink filtration units, in-line units and/or refrigerator filters for periods of time without usage can create problems and, unlike your CWL unit, these other units have no ability to self clean.

EWS Filtration and Conditioning:

Along with filtration, is water hardness an issue?

See "The Environmental Water System"

The Nation's #1 Whole Home Filtration and Physical Conditioning Appliance

For the combination of whole home filtration and the best alternative to salt softening



CWL-1035 LTD

Whole Home Water Filtration Appliance For Use in Condo/Townhome or Applications with Space Restrictions Model: CWL-1035 LTD

Our CWL-1035 packs the same filtration punch of its larger siblings but stands only 44" tall installed. Same great valve, flow rates with only 1 cubic foot of our GAC media for smaller applications and usage. The CWL Series of whole home water filtration appliances is designed to provide quality, filtered water to the entire home, which creates a healthier water environment for you and your family. The granular activated carbon (GAC) high grade filtration media removes chlorine and other volatile organic compounds (VOC's), improving the taste, clarity and odor of all the water. Water is delivered throughout the home at the flow rate and pressure normally found. The water can be used for all purposes; drinking and cooking, bathing and showering, steam and sauna; for you and your family, pets and plants. The automatic backwash does not allow the filtration media to pack, channel or pool, this prevents any bacterial build-up and provides continued and renewed surface area for filtration. Years before media (not a cartridge) replacement based on usage and conditions. Larger units available based on water conditions, usage and/or line service size.

Benefits:

- * Same Unit in Form and Function for Limited Space
- * Improves Taste, Clarity and Odors to the Entire Home
- * Removes Chlorine and VOC's
- * Replaces Costly Bottled Water
- * Healthier Water for Skin, Hair and Body Systems
- * Healthier Environment for Absorption and Inhalation
- * Upgrade Your Usage of Your Spa Tubs, Shower Systems, Steam and Sauna Units, and All Your Faucets
- * Appliance Does Not Need Routine Maintenance and is Environmentally Correct

Applications:

- * Installs Easily at the Main Water Supply Line that Supplies the Home, Maintains Flow Rate and Pressure
- * Any Home with a 3/4" up to 1" Service Line
- * Drain (backwash) Water is Safe, No Brine Discharge
- * Complete Water Environment: Drinking, Cooking, Showering, Bathing, Steam, Sauna
- * Safe for Pets, Plants, Pools, Spas and Less Harsh on Plumbing Fixtures, Accessories, Finishes and other Surfaces



CWL-1035 LTD
Standard Home Unit
for applications with space
limitations

Upgrade Options: Based on actual water conditions and/or consumer need, or consumer concern or preference

- Do you have problems associated with Hard Water, the naturally found Calcium and Magnesium minerals? Water may excessively spot up and make it difficult to clean, while forming scale build-up in your pipes and water heater. Not a contaminant or health issue, strictly aesthetic, however;
 - Consider the EWS Series. The Environmental Water System for Whole Home Filtration *and* Physical Conditioning, the best alternative to harsh softening without the disadvantages of the salts (see softener restrictions)
 - or, if applicable, based on water conditions or consumer preference, add a softener (not a filtration product) on the hot side only to either a CWL or EWS Appliance.
- Can be combined with specific sink units for drinking (oral intake only) due to specific water problems or conditions or consumer's needs or concerns at the point of use.
 - For Removal/Safeguard of Lead and Cysts, see FUGAC250
 - For Removal/Safeguard of Lead and Cysts, Bacterial, Viral, E-coli, and other Microorganisms, see UU250
 - For other specific applications, See reverse osmosis systems, if applicable

EWS, Inc. provides a complete line of filtration product from the sink to the whole home, based on your needs and concerns. Know your source water whether municipally-treated or well water and understand your needs. Do not be sold - Be Informed.



CWL-1035-LTD

Technical Information: CWL-1035 LTD & CWL-1054 Whole Home Filtration Appliance

Model No.	Tank Size	Media Content cu. ft. / lbs	Line Size	Valve Head	Installed Unit Size	Water Flow (GPM)	Backwash (GPM)
CWL-1035	10" x 35"	1.0 / 28	3/4 in. - 1 in.	*DTV	10" x 44"	15	4

Proper Application: CWL-1354 Series should be considered based on larger homes, larger families (5 or more), greater water usage, multiple water heaters, pools, spas, main service line (required on 1 1/4" or 1 1/2" lines for flow rate capabilities) and/or water conditions, based on greater filtration bed depth and the contact and dwell time it would provide.

MEDIA SPECIFICATIONS:

Granular Activated Carbon (GAC) - Primary Filtration Media

- Large surface area results in an exceptionally high capacity and efficiency. Activated Carbon is very hard so losses due to attrition are kept to a minimum. GAC constitutes an excellent filtration media, having a density with a balanced pore structure for more efficient operation. GAC even with its high capacity should be replaced when the filter loses the capacity for removal of taste and odor.
- GAC is the most effective media for the removal of contaminants from water. GAC has the unique ability to adsorb chlorine from water and is the most preferred method for the complete protection from trihalomethanes (THM's) and has been proven 99% effective.
- However, no one media, resin or cartridge is capable of all things. Please refer to the GAC reference chart for capacities.
- A high grade, dedusted GAC with an iodine rating of 1200 has been selected for all CWL and EWS Series with the added Filter Ag and Filter Sand for enhancements.

GAC PHYSICAL PROPERTIES:

Color: Black, Form: Granular, Mesh Size: 12 x 40
 Density: 33lbs. / cu. ft., Water Soluble Ash: less than 0.5%
 Iodine No.: 1200 Abrasion No.: 75 min.
 Meets and complies with: American Water Works Association Standard -B604-74
 Bed Depth: 26 - 30 in., Backwash Rate: 8-10 gpm
 Backwash Bed Expansion: 30 - 40 % of bed depth

Filter Ag

Used to afford maximum removal of suspended matter throughout the filter bed and to allow the GAC media to work at maximum efficiency

- * Acts as a Pre-Sediment (20 micron) media
- * Less pressure loss, increased filter capacity
- * Light weight, lower backwash rates.

Under Bed Filter Sand

Keeps riser in place and promotes better flow and even water distribution through media bed and during backwash cycles to lift bed uniformly.



DTV - Digital Technology Valve:
Controls automatic backwash cycles
Warranty: Valve - 3 years

Electrical:
24 volt for DTV operation

Drain: 1/2" to any location

Freeboard: Top 1/3 Allows media space to lift during backwash

Filtration: GAC filtration media

Tank: Tough epoxy and fiberglass outer laminate, seamless, one-piece blow molded
Warranty: Tank - 10 years

Stainless Steel Jacket: 1054
White Plastic Shroud: 1035 cover only, non-functional

Lower Riser Screen and Under Bed: Water distribution

Cut away illustration of CWL-1054

CONDITIONS FOR OPERATION:

System Service Flow Rate - up to 15 gpm
 Media Service Flow Rate - 5 gpm / sq. ft.
 Min/Max Water Temperature: 40° / 80 °F - 4.4 / 62.8C
 Min/Max Water Pressure: 40 PSI / 75 PSI
 Warning: Install Pressure Reducing Valve (PRV), by code in places, to prevent pressure surges and warranty issues

Service Program 12:23 Flow P.M.

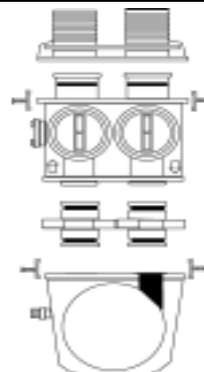
Backwash Display

Step 1 - Backwash
Step 2 - Settling
Step 3 - Rapid Rinse

*Digital Technology Valve exclusively designed by EWS to provide years of maintenance free operation.

- Easy time set
- Consumer friendly
- Easier for install/start-ups
- Shorter, yet more efficient backwash cycles

Graphic representations for illustration purposes only.



Top/Front View of DTV using dual-port, full flow, noryl bypass with male threaded yoke.

- Shuts off water to/from the unit
- No additional plumbing for media replacement or maintenance
- Less costly plumbing installation, easier start-ups, non-corrosive



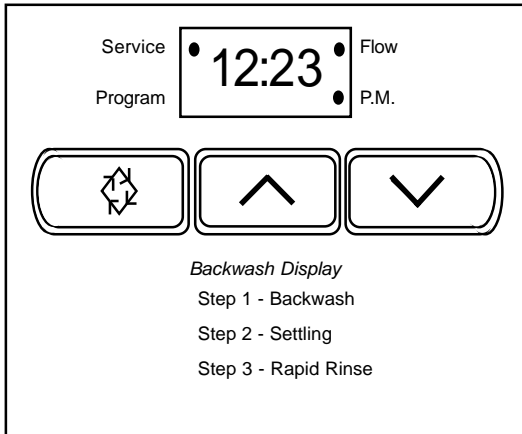
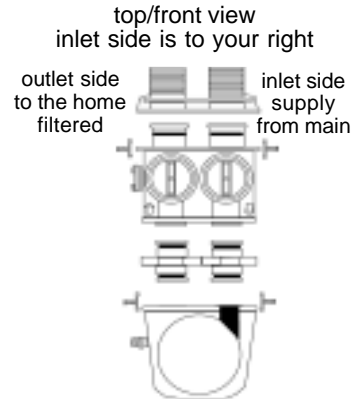
CWL-1035 LTD



CWL-1035 LTD

Service Line Size: 3/4" - 1"
 Drain Line Size: 1/2"
 Installed Dimensions: Height: 44"
 Dry Weight: 60
 Width: 10"
 Clearance:
 Allow 18" for plumbing

Bypass included:
 Must be installed with 1" DTV valves



Digital Valve Control Face for all CWL Appliances with 1", HF or 1 1/2" valves

***Digital Technology Valve exclusively designed by EWS to provide years of maintenance free operation.**

- Easy time set button up or down to set time
- Consumer friendly easy read out and simple to manually (if needed) backwash with one press of the recycle button
- Easier for install/startups Follow the easy install instructions in our service guide
- Shorter, yet more efficient backwash cycles
- No mechanical timer motors to wear out
- Redesigned drain outlet prevents cracking drain port and restrictor from overtightening
- Time of backwash can be adjusted to a different time of day



If given the opportunity, why would you filter all the water to your home?

You know water is very important to you!

The body is composed of 70-80% water. Water is one of the four main nutrients of the body. A healthy human being can go without food for two weeks but only three days without water. Many vital functions and all chemical reactions in the body take place in the medium of water. Water aids in all bodily processes - assimilation of nutrients, digestion, circulation and elimination. Water lubricates the joints of the body and helps regulate its' temperature. Drinking sufficient quantities of water helps flush out impurities, discourages bloating and the retention of water, and helps restore moisture to the skin and hair, while discouraging wrinkles and dryness.

■ You know there are several ways to intake water!

- Drinking: Water may be ingested, ie: water, coffee, tea, ice and mixes.
- Absorption: Taking a shower exposes you to the equivalent of consuming an additional 1/2 gallon of water each day. After soaking in a bath tub or spa for ten minutes, you may be up to 4 lbs. heavier upon your exit.
- Inhalation and absorption: The greatest intake may be your shower, where gases are vaporized. Inhalation exposure was found to be comparable to direct ingestion. Steam and sauna are included.

■ Without getting paranoid, you know you have concerns with water, as well as, many other things!

Chlorine is used almost universally in the treatment of public drinking water because of its toxic effect on harmful bacteria and other waterborne, disease-causing organisms. But there is a growing body of scientific evidence that shows chlorine in drinking water may actually pose greater long-term dangers than those for which it was used to eliminate. These effects of chlorine may result from either ingestion or absorption through skin. Scientific studies have linked chlorine and chlorination by-products to cancer of the bladder, liver, stomach, rectum and colon, as well as, heart disease, anemia, high blood pressure, and allergic reactions and skin sensitivities. We know chlorine has issues with protein in our body and that of the skin and hair, just remember the last time you were in a pool.

Problems also arise from other chemical compounds. These compounds include, but are not limited to, chemicals associated with various pesticides, herbicides, fuels, dyes, solvents, and industrial and agricultural by-products. Misuse of these materials and/or improper storage and disposal has allowed drinking water supplies to become suspect. Trace elements of these chemicals may be within acceptable limits, however their long-term effects are unknown. Since chlorine, other disinfectants, their by-products, and other chemical compounds are present in our municipal supplies, one might want to remove these substances at the point of entry.

■ Did you know, there is a product for you!

The CWL Series of Whole Filtration Appliances by EWS, Inc. can be installed at your main water supply line and filter all the water entering your home of the chlorine and other volatile organic compounds. Period.

Filtration to the whole home is a wonderful experience and of all the great things you put into your new, remodeled or existing home, this is the one device that will be used by every member of the family, everyday. Showering, bathing, steam, sauna or just brushing your teeth is cleaner, tastier and healthier. The harsh elements you eliminate for yourself also protects your fixtures and finishes over the long term from these same chemical compounds.

■ They laughed back then!

Years ago, central heating and air conditioning was an option that has become a standard feature in all homes. Now, heating and air conditioning units have advanced (de-) humidification and filtration devices to improve the air quality in your home. Central vacuuming, Central alarm, Central water. Luxury spa tubs and shower systems are commonplace, yet how luxurious can they be using unfiltered, chlorinated, municipally-treated tap water?

CWL/EWS Filtration to the Whole Home is becoming a recognized upgrade; to your home, your lifestyle and your health.

■ Our commitment to you!

EWS, Inc. manufactures and provides a complete line of water filtration, softening and conditioning product from sink to whole home. We provide the information that enables the consumer to choose the right product for their water conditions and their concerns. Sold only through building wholesale supply, kitchen & bath showrooms, and appliance dealers, EWS, Inc. has been pioneering its' series of whole home filtration appliances for over 20 years to those consumers willing to be informed and not sold.

Read, request or visit www.ewswater.com for information on this and other products in our residential catalog. If there are specific water issues or consumer concerns, whole home filtration can be combined with specific sink (point of use) applications for oral intake (drinking) only.

For problems associated with hard water, consider the EWS Series - the Environmental Water System, for Filtration to the Whole Home *and* Physical Conditioning, as an alternative to harsh salt softening.



GRANULAR ACTIVATED CARBON (GAC) Reference List

Below is a simple reference chart to give some perspective as to GAC's capabilities with various substances. Some items are heavy metals and inorganics, while others are VOC's (volatile organic compounds), some of which are man-made pollutants. Still other items, such as hardness, are not even considered contaminants. In general, GAC is very economical and a great compliment to municipally-treated water without the disadvantages of more aggressive filtration. GAC is used in all filtration due to its removal capacities. Know your water to select the correct product for you, your family and your home.

Carbon (GAC) Filtration: For the general removal of chlorine, chloramines, gases, dyes, fuels, the man-made pollutant issues, the volatile organics contaminants; see those categories that have reference numbers of 3, 4 or 5. Filtration of these items compliment most municipal water for taste, odor, clarity and quality for oral intake, absorption and inhalation. See CWL or EWS whole home appliances for this filtration to the entire home or any sink filtration system for any point of use.

In general, items listed with 0, 1, or 2 are closely monitored and treated by the local municipality or utility that delivers your water. Issues such as lead occur due to aging delivery systems and other elements such as nitrates or arsenic may be present due to local environmental conditions. These elements are related to oral intake only. Specific filtration of lead and cysts are accomplished by Carbon Block found in the FUGAC250 or UU250 with the added safeguard of UV disinfection. Specific filtration for oral intake of other items referenced by 0, 1, or 2 can be accomplished by the use of a membrane, as found in the RU300C18 reverse osmosis system

Whole Home Filtration by EWS, Inc.

EWS, Inc. uses a proprietary raw, natural organic material for activation, which creates an incredible surface area of 800 square meters per gram of material, or over 3,000 football fields of surface area per 11/2 cubic feet (41-42 lbs.), which we use in our standard CWL or EWS units (21/2 cu.ft./65 lbs. in all 1354 Series). This high grade, dedusted, Granular Activated Carbon has a minimum Iodine rating of 1200 and has been selected for use in all CWL Series (whole home filtration appliances) and the Environmental Water Systems Series of whole home water filtration and conditioning appliances for optimum use and filtration.

Table with 5 columns listing various substances and their corresponding GAC reference numbers (0-5).

KEY TO THE ABOVE LIST:

- 5- EXCELLENT - A proven application
4- VERY GOOD - A proven application
3- GOOD - very acceptable result
2- FAIR - limited application
1- POOR - not a recommended application
0- Not an application for GAC



Acknowledgements

BUILDING PRODUCTS 15



15. Environmental Water Systems. The whole-house filtration system, which hooks to the main shutoff valve, does not require a bypass. It filters water through activated carbon granules to mitigate chlorine and odors. The no-salt conditioner suspends hardness of minerals to reduce scale buildup and help retain nutrients. 702-256-8182. Circle 107

READERS RESPOND

BUILDING PRODUCTS presents the TOP 150 products readers requested information about during the past year.



ENVIRONMENTAL WATER SYSTEMS
150TH ANNIVERSARY WATER LINE

Environmental Water Systems is the ultimate appliance to solve filtration and chemical conditioning. Installed at the main service line, Environmental Water Systems provides filtered water to the entire home. Unlike traditional water softeners, Environmental Water Systems gives customers the benefits of filtered water to the entire home. Conditioned water prevents buildup in pipes and water heaters, cuts down on soap use and cleans up easier without removing beneficial minerals.

The Consumer Water Line, from sink to the whole home, the products, prices and programs to satisfy distributor's, builder's, and consumer's needs. Circle no. 109



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BUILDING PRODUCTS Magazine BUILDING PRODUCTS Magazine's Top 150 Product Picks!

Ranked No. 15: Environmental Water Systems:

This whole house filtration system, which hooks to the main shutoff valve, does not require a bypass. It filters water through activated carbon granules to mitigate chlorine and odors. The no-salt conditioner suspends hardness of materials to reduce scale buildup and help retain nutrients.

Environmental Water Systems is the ultimate appliance in water filtration and physical conditioning. Installed at the main service line, Environmental Water Systems provides filtered water to the home while helping to solve problems associated with hard water. Unlike traditional water softeners, Environmental Water Systems gives customers the benefits of filtered water to the entire home. Conditioned water prevents build up in pipes and water heaters, cuts down on soap use and cleans up easier without removing beneficial minerals. From sink to the whole home; the products, prices and programs to satisfy distributor's, builder's, and consumer's needs.

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BUILDER Magazine
December 1996

Environmental Water
Systems

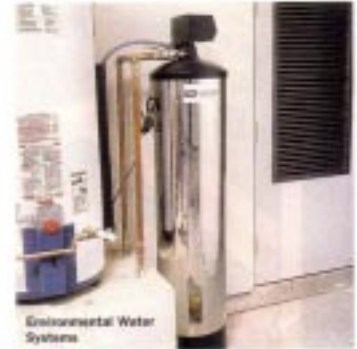
114

BUILDING

FAVORITE 50

"Favorite 50"

"Whole-house, no-salt conditioning and filtration system was installed. Water is filtered through activated carbon granules to eliminate chlorine and odor. Integral conditioner places minerals that cause hardness into suspension so they adhere less, manufacturer claims. System fits in single tank; installation is similar to that of typical water softener. Automatic timer takes care of backwash; because there is no salt, backwash can be directed to lawn and garden or drain lines, company says."



WATER PURIFICATION SYSTEMS

Environmental Water Systems: Whole-house filtration system hooks to main shutoff valve and requires no bypass. Filters water through activated carbon granules to mitigate chlorine and odors. No-salt conditioner suspends hardness of minerals to reduce scale buildup and help keep nutrients. 702-256-8182. Circle no. 107



BUILDER Magazine -
January 1994

Environmental Water
Systems

"The New American
Home"

Featured water filtration product in the showcase home of the National Association of Home Builders Annual Show. "Environmental Water Systems: Whole house filtration system hooks to main shutoff valve and requires no bypass. Filters water through activated carbon granules to mitigate chlorine and odors. No-salt conditioner suspends hardness of minerals to reduce scale buildup and help keep nutrients."



FDA, EPA and NSF Compliances

Please be advised that all the materials and components utilized in producing all POU (Point of Use) drinking water filtration and reverse osmosis systems, and all POE (Point of Entry) filtration, conditioning and softening equipment, by EWS, Inc., comply with, but are not limited to, one or more of the following regulating standards:

NSF STANDARD 14	FDA 21 CFR 177.1520	FDA 21CFR 177.1640
FDA 21 CFR 177.1350	FDA 21 CFR 175.105	CAS # 7440-44-0
ANSI 304	CDA C360000	NSF STANDARD 60
NSF STANDARD 61	NSF STANDARD 58	ANSI 302
ANSI 316	FDA 21 CFR 177.2600	FDA 21 CFR 175.300
FDA 21 CFR 177.2550	NSF STANDARD 52	NSF STANDARD 42
NSF STANDARD 18	FDA 21 CFR 177.2550	FDA 21 CFR 177.1655
FDA 21 CFR 177.1630	FDA 21 CFR 177.2800	FDA 21 CFR 175.300
FDA 21 CFR 177.2260	FDA 21 CFR 181.32	FDA 21 CFR 177.2660
FDA 21 CFR 177.1950	FDA 21 CFR 177.2910	FDA 21 CFR 177.2250
FDA 21 CFR 177.1680	NSF STANDARD 53	NSF STANDARD 55

■ Most of these standards relate to the Code of Federal Regulations of the United States of America, Title 21, Charter 1, Subchapter B set forth by the U.S. Food and Drug Administration.

■ The NSF (National Sanitation Foundation) standards correlate to materials and potable water.

Furthermore, and without, exception every component included in all POU and POE systems by EWS, Inc. are compliant for food and beverage contact and/or meet or comply with the most current, appropriate, and applicable standards without exception.

Factory Preparation:

All systems are factory prepared and thoroughly checked to assure proper function and if applicable, quality tests of product water produced to assure that minimum standards of rejection have been met, and/or tests of specific components to assure correct function and flow rate measurements to assure efficiency specifications are met.

Product Performance:

◆ For all product capabilities, compliances and/or warranties to remain valid, all systems are dependent upon proper application, specification, and installation of any specific unit and/or combination of units.

◆ Please know your local or individual water condition(s), and plumbing application(s). Please review system(s) capabilities, applications, setup, installation, startup, maintenance, and related warranties.

◆ Detailed information is published in EWS Product Manuals and specific Product Service Guides (included with each specific unit) and made available upon request throughout US distribution and/or EWS corporate offices. All current information is available online @ www.ewswater.com or www.ewswater.com/techandspec.html



Filtration Media Replacement Kit for CWL-1035 LTD

GAC Filtration Media Kit - CWL Series - Filtration Only

Filter Code No: POE-3 Model No.: M/GAC1035 1.0 cu. ft. GAC media for 1035 tank

1) Granular Activated Carbon - Primary Media

Color: Black

Form: Granular

Mesh Size: 12 x 40

Density: 33lb.s / cu. ft.

Water Soluble Ash: less than 0.5%

Iodine No.: 1200

Abrasion No.: 75 min.

Meets American Water Works Assn. Standard -B604-74

2) Stage 2: (Filter Ag)

ADVANTAGES:

- * Acts as a Pre-Sediment (20 micron) media
- * Less pressure loss, increased filter capacity
- * Light weight reduces shipping costs and lower backwash rates.

3) Stage 3: (Under Bed)

Under Bed Keeps riser in place and allows better water distribution through filtration and backwash.

PHYSICAL PROPERTIES:

Color: Light grey to near white

Density: 24 - 26 lbs. / cu. ft.

Effective Size: 0.57 mm

Uniformity Coefficient: 1.66

CONDITIONS FOR OPERATION:

Maximum Temperature: 140F - 60C

Bed depth: 24 - 36 in

Backwash Rate: 8 -10 gpm / sq. ft.

Backwash Expansion Rate: 35 - 50% of bed depth

Service Flow Rate: 5 gpm / sq. ft.

Top 1/3 of tank left open and available for freeboard space to allow proper backwash and lift

* Media replacement based on local water conditions and usage, proper installation and routine maintenance. Typically, we have demonstrated years between replacements.

Replacement Kits come complete with pre-measured media, funnel, riser cap and instructions to extract and clean out old filtration media and replace with new filtration materials. Easy to do, requires no plumbing and takes about 45 minutes to an hour.

See GAC reference chart



A Quick Reference of Systems and Combinations for Various Applications

Point of Entry (Incoming Home Water) Treatment

Helpful Hints: Test the water completely and specify the correct systems, first to provide healthy water to the consumer, and then water to minimize damage to the home. Specify disinfection, iron removal, pH balancing and/or sediment filtration, if needed. Specify the CWL or EWS Series at the main water supply and/or a softener on the hot side only (water heater inlet) if the softener is needed or desired. This will restrict the softeners harmful effects and still provide filtered water to the rest of the home. Specify specific sink filtration systems for oral intake (drinking, cooking, etc.) based on water results and a needed application.

Pyrolox High Purity Media Systems

For the removal of iron, manganese and hydrogen sulfide. Installed at the point of entry, this is a removal of these problems, not the trade-offs of ion-exchange. Automatic backwash with no brine discharge, no chemicals to add, and years between any maintenance (media replacement) make these systems a must with wells having these pre-treatment issues.



pH Increasing Reagent or pH Decreasing Resin Systems

Custom blended calcite/corsex media to balance low pH to prevent the corrosivity of this acid type water and custom blended resin based ion-exchange systems to lower very high pH and alkaline water.



Pre-Sediment Filtration

For the removal of actual materials, such as; dirt, silt, rust, sand, and/or particulate matter. Installed at various locations to protect other systems, this is not the cheap whole home filter others pass this off to be. It is a pre-sediment filter.

CWL Series - Whole Home Filtration Appliance

Tanks contain a High Grade of Granular Activated Carbon (GAC) Media for the removal of Chlorine and Volatile Organic Compounds (VOC's). Great for filtration to the whole home of chlorinated water supplies, for drinking, cooking, showering, and bathing (great for hair and skin) - all uses. Also used for non-chlorinated applications to safeguard water from VOC's due to ground water contamination. Upgrade option: EWS Series to filter and physically condition water, if water hardness is an issue. Required or chosen upgrade options: Point of use, drinking water system, or reverse osmosis for limited sink applications based on water conditions or additional water concerns for drinking use.



EWS Series - The Environmental Water System Whole Home Filtration and Physical Conditioning

Filters to the whole home like the CWL Series of appliances and offers the consumer an alternative to harsh salt softening. EWS conditioning causes a physical change in how naturally found calcium and magnesium minerals react in the water and on surfaces. EWS keeps these minerals in the water for a pure, fresh taste while helping solve those problems associated with hard water. The result: less spotting, easier clean up, and prevents scale build-up in pipes and water heaters without the damaging effects of salts. No slippery feeling. No brine discharge. The best combination of whole home filtration and the alternative to salts and softening. Required or chosen upgrade options: Sink units for specific removal needs or concerns.



Softeners

If water hardness is an issue, water softeners will soften the water through ion-exchange. This process substitutes naturally found calcium and magnesium (hardness) minerals for sodium or potassium chloride (salts) and does not filter the water. Water will spot less, wipe off easier, and prevent lime scale in pipes and water heaters. However, restrictions on softeners due to brine discharge into your septic tank, salts, and wasted water are growing. Softeners may also void warranties on other household products (ie: pools, spas, special finishes, etc.) Once softened, many people do not like the slippery feeling of the water and reverse osmosis becomes necessary to remove the salt from drinking water that the softener put in. If a softener is chosen, application on the hot side only is recommended. Ironically, we make some of the most efficient metered softeners in the industry. Consider on hardness above 20 grains and use on excessive hardness above 40 grains. Alternative: EWS Series to filter and physically condition water below 30 grains.



Point of Use (Sink Location) Filtration Product

Helpful Hints: Choose as a drinking water upgrade based on tested results, needs or concerns. Select either a drinking water filtration system or reverse osmosis system based on the needed application, consumer's needs, concerns and/or preferences. Add an EWS chiller and one of our upgraded dispensing faucets to complete the sink package.



Drinking Water Systems

Sink filtration product for oral intake, drinking, cooking, ice-making, etc., to protect consumer against known or unknown water issues or concerns. **FUGAC250 ("better")** for carbon block filtration of chlorine and VOC's, lead, and cysts. **UU250 ("best")** for the additional safeguard from bacterial, viral, e-coli and microorganisms. No storage tanks, no limited supply, and no wasted water associated with reverse osmosis systems.

Reverse Osmosis Systems



Sink filtration product for oral intake, drinking, cooking, ice-making, etc., to protect consumer against known or unknown water issues or concerns. **RU300** series for chlorinated municipal water. **RU400** series for potable non-chlorinated, well or municipal supplies. **RU500** series optional for harsh well water. Add UV module for the additional safeguard from bacterial, viral, e-coli and microorganisms. Be aware that RO has specific issues and drawbacks (ie: wasted water, limited production, storage tank space, very aggressive water), and has specific applications, making these systems widely misapplied.



EWS, Inc. / Environmental Water Systems

The complete EWS, Inc./Environmental Water System product line from sink to whole-home, available through:



Available on the Internet through Authorized Retail Web Distributors

www.waterontheweb.com

and

Business-to-Business E-Commerce Distributors.

Available through Authorized Building Wholesale Supply Locations, Kitchen & Bath Showrooms and Appliance Dealers, and their Building and Plumbing Contractors throughout the United States.



EWS, INC. and Environmental Water Systems A Complete Line of Water Filtration Product from Sink to Whole-Home

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For all product information, service guides, technical specifications, well water applications, go to: www.ewswater.com/techandspec.html

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