

PRODUCT AND INSTALLATION MANUAL

Point of Entry Cartridge Filter Unit

MODEL NUMBER:

BB-FUGAC200A-1



ENVIRONMENTAL WATER SYSTEMS®

Quality Water Filtration Crafted in the USA Since 1987.

WWW.EWSWATER.COM

Retain this Product & Installation Manual
for Helpful Information

Please Register Your System

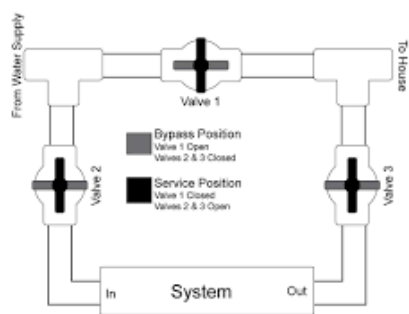
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Completely Assembled Unit

Unit Exploded View and Parts



Required:
Illustration of a plumber installed 3 valve bypass

INSTALLATION - 6 SIMPLE STEPS

1. Unpack and check. Unit comes completely assembled with the following:
Pre-sediment and GAC block filters, housings, bracket and spanner wrench
2. Location: Identify an appropriate mounting location near access to the main water line or water line you intend to use. The unit can be mounted in both indoor and outdoor locations.

WARNING: Never allow unit to freeze. Avoid temperatures above 120°F or attic locations
If outdoors, unit must be protected from direct sun and heat.

3. Turn off the water supply. Route the cold water supply into the inlet side (clearly marked IN/FEED/STAGE 1) of the unit. Install using proper plumber supplied pipe, fittings, unions and ball (shut-off) valves to the inlet, outlet and required bypass of the unit for proper maintenance and filter service.

NOTE ABOUT GROUND CONTINUITY:

Installed bypass with copper piping maintains electric continuity for the proper ground of plumbing system. If bypass is not installed, a jumper is needed (copper wire clamped) between any metal piping before and after the unit to maintain the proper ground.

WARNING: Use of teflon tape is the only sealant to be used on threaded connections.
NO pipe dope.
Do not cross-thread, strip threads or over-tighten

4. Once unit installation and bypass is complete, slowly open (less than 1/2 regular flow rate or less than 5 gpm) inlet of unit and close bypass. Keep outlet of unit closed and allow unit to fill slowly. Check unit at inlet connections, housings, bracket and housing connections.
5. Once filled, open inlet and outlet of unit completely. Check all connections.
6. Flush unit of carbon fines. Find nearest faucet to the unit, remove aerator or any restriction, and open cold side only. Allow carbon fines to flush through faucet until water runs clear. Open all faucets to clear air in lines.

WARNING:

- Maximum water pressure - 75psi. Control pressure and do not allow to spike or surge above 75psi
- Cold water inlet, supply or usage only

WARNING:

- Use of teflon tape is the only sealant to be used on threaded connections.
- Use of pipe dope, any grease, or solvents on the threads will void warranty
- Do not overtighten, cross-thread or strip any connections into the inlet or outlet of the cap assembly.
- Do not overtighten the housing into the cap assembly and make sure the housing O-Ring is clean and in the proper position.

WARNING:

- Do not allow to freeze.
- Avoid temperatures above 120°F or attic locations
- Avoid or protect from direct sunlight or heat.
- Prevent any thermal expansion or hot water flow into unit from water heater.

REPLACING THE FILTERS

1. Turn off water supply to filter. Keep bypass closed. Open water in home at nearest faucet to relieve pressure. Unscrew blue housings using spanner wrench.

CAUTION: Do not lose O-Ring that are in blue housings. When opening housing to change cartridge, it is common for the O-Ring to lift out of blue housing or stick to black cap.

2. Remove used cartridges and discard.

RECOMMENDED: Rinse out housings and fill about 1/3 full with water. Add about 2 to 3 tablespoons of bleach and scrub thoroughly with a brush or sponge. Rinse thoroughly.

3. Remove O-Ring from blue housings and wipe groove and O-Ring clean. Lubricate O-Ring with a coating of clean silicone grease. *(Do not use Vaseline or other petroleum-based lubricants.)* Place O-Ring back in place and press O-Ring down into the groove with two fingers.

NOTE: Make sure the O-Ring is seated level in the groove to ensure proper seal.

CAUTION: If O-Ring appears damaged or crimped it should be replaced at this time.

4. Insert the new replacement filter cartridges in the proper order *(Pre-Sediment in Stage 1 and Green Carbon filter in Stage 2)* into the blue housings making sure that it slides down over the stem found at the bottom of the housings and the bottom of the black cap.

CAUTION: The filter must be properly inserted over the stem located at the bottom of the housing and the bottom of the black cap before tightening the housing.

WARNING: Misplacement of the filter can cause damage to the housing.

5. Twist the blue housings onto the black caps and hand tighten.

WARNING: Do not overtighten or cross thread

6. Turn on the water supply slowly to allow housings to fill with water. Allow water to flow through the open faucet. Close faucet when water runs clear

**FILTER SERVICE LIFE IS BASED ON LOCAL WATER CONDITIONS
AND USAGE AND SHOULD BE REPLACED AS NEEDED,
NOT TO EXCEED ONE YEAR.**



ORDERING FILTER REPLACEMENTS AND PARTS

Filter Cartridges: BB-PRESED-50-SW and BB-GACB-10-RFA
(white, pre-sediment) (green, GAC block)

There are a few ways to order filter replacements for your unit.

1. Contact your builder, plumbing contractor and/or your installer that provided the product.
2. Contact the showroom or retailer where you purchased the product.
3. Contact an EWS authorized online distributor - Do not accept non-EWS replacements.

If you need assistance, visit our Corporate Site @ www.ewswater.com
or contact EWS Customer Service and we can direct you to someone who may assist you.

For all product information, specific information on this product and published warranty notices,
please visit www.ewswater.com or
email customerservice@ewswater.com
and submit your request for information for a reply and any attachments



Point of Entry, Two Stage Cartridge Filtration Unit

Model: BB-FUGAC200A-1 application for 3/4" to 1" lines

For any larger service lines - see the EWS or CWL Series of whole home water filtration for proper flow rates to the home and longevity of filtration media instead of routine filter cartridge replacements.

Point of entry cartridge filtration unit contains a string wound pre-sediment filter which prevents premature clogging and a Radial Flow Carbon post-filter. For the initial budget conscious consumer looking for the benefits of water filtration throughout the home with yearly filter replacements**.

Improves taste, clarity and odor by removing chlorine and other volatile organic compounds. The 50 micron pre-sediment filter serves to remove suspended matter, dirt, rust and sediment and improves performance of the post-filter. Meets or complies with NSF Standard 42 and 61.

- * Powder Coated, Corrosion Resistant Bracket Mounts Easily
- * 20" Heavy Duty Housings Contain our Full Sized, Full Bed Depth Cartridges for Optimum Performance and Longer Life
- * Replacing Filters is Easy; Use the Included Spanner Wrench to Spin Housings Off and On.

Benefits:

- * Improves Taste, Clarity and Odors
- * Removes Chlorine and VOC's
- * Reduces Dirt, Silt, Sediment and Rust
- * Replaces Costly Bottled Water
- * Better Tasting, Quality, Filtered Water for Coffee, Tea, Juices and Ice
- * Quality Water Throughout the Home

Applications:

- * Installs Easily at any Point of Entry Location
- * For All Your Needs - Drinking and Cooking, Showering and Bathing, Skin Absorption and Inhalation
- * Safe for People, Pets and Plants



Pictured:
Fully Assembled BB-FUGAC200A-1

Picture for Illustration Purposes Only:
Model may have white or black brackets

All completely assembled units include the following standard features:

Blue 20" housing with full bed depth filtration cartridges,
spanner wrench to open housings for easy filter replacement, simple to use mounting bracket

UPGRADE OPTIONS:

EWS/CWL Series for Whole Home Filtration:

Filtration media lasts up to 10 years before replacement and have superior flow rates with no observed pressure or flow rate loss. Filtration of self-cleaning EWS or CWL media does not degrade over usage like POE cartridge units between needed or routine filter cartridge(s) change-out

Sink Filtration or Drinking Water Upgrade Options, Based on Consumer Preference, Need or Local Water Conditions:

For the additional drinking safeguard of lead and cyst removal (Max Flow # SS-2.5), for the additional drinking safeguard of bacterial, viral, e-coli and/or microorganism safeguard (#DWS-UV) or Reverse osmosis (#RO3), if applicable based on consumer preference or local water issues

TECHNICAL INFORMATION: BB-FUGAC200A-1

FILTER SPECIFICATIONS:

Pre-Filter: BB-PRESED-50-SW

Construction: 100 % Pure Polypropylene Fibers
Dimensions: 4 1/2 in. x 20 in. (11.4 cm x 51.0 cm)
Micron Rating: 50 µm Nominal
Initial Pressure Change: 1.00 psid @10.0 GPM
Meets FDA Requirements for food and beverage contact.

Filter: BB-GACB-10-RFA

Vibration Packed Radial Flow Granular Activated Carbon Block
Dimensions: 4 1/2 in. x 20 in. (11.4 X 51.0 cm)
Micron Rating: 10 µm Nominal
Initial Pressure Change: 3.00 psid @7.0 GPM
Chlorine Reduction: 40,000 Gal. @ 7.0 GPM based on 2ppm chlorine with greater than 90% reduction, ANSI/NSF Standards 42 and 61 - Conforms to requirements.



Unit Exploded View
and Parts



System Weight:

29 lbs./ 13.18 Kgs., System Size: 8 5/8 in. W x 15 3/8 in. L x 26 1/4 in. H / 21.6 cm x 38.8 cm x 66.5 cm

Min/Max Water Temperature:

40° / 100 °F - 4.4 / 37.8 °C,

Max Water Pressure for 20" Housings: 100 PSI / 6.2 Bar

Initial Pressure Change of Vessel without Filters: 1.00 psid @15.0 GPM

BB-FUGAC200A-1 Housing

Inlet/Outlet Size: 1", Flow Rate : <10.0 GPM / 37.85 LPM, System flow rates to insure proper filtration tolerances.

SHIPPING INFORMATION: Carton Size.:16 in. W x 10 in. L x 28 in. H



Find The Right Product For You

Whether your water is hard or soft, treated with chlorine or chloramine**, Environmental Water Systems has the right appliance to protect you, your family, and your home. Just a few simple questions will help you determine which appliance is best for you. If you need any help at all, please call EWS Customer Service at 702.256.8182 Monday-Friday 8.00 am - 4.30 pm Pacific Time.

DO YOU HAVE HARD WATER?

YES

Some of us have harder water than others, and EWS generally considers 6 grains (102 ppm or mg/l) of hardness to be on the lower end of hard water. Select **YES** if you have hard water issues such as excessive spotting or mineral build-up in pipes, faucets and water heaters.

NO

DOES YOUR CITY USE CHLORINE OR CHLORAMINE**?

EWS SERIES Whole Home Water Filtration and Conditioning for Hardness Minerals.



DOES YOUR CITY USE CHLORINE OR CHLORAMINE**?

CWL SERIES Whole Home Water Filtration Only for Water Without Hardness Issues.

CHLORINE ¹

EWS SPECTRUM

Model #: EWS-SPECTRUM
Our most popular EWS system and #1 seller.

Adjustable for 3/4" - 1 1/2" main water line. Up to 37 gpm.

¹ If your city water is treated by chloramine this system can still be very effective for 4 or less people with 4 or less bathrooms.

The only difference may be how long the filtration media may last.

- With Chlorine up to 10 years
- With Chloramine 7 years

Either way you cannot go wrong.

So the choice between the EWS SPECTRUM and the EWS-CC-1465 can be a customer choice based on price point or longevity of filter media.

CHLORAMINE**

EWS CC 1465

Model #: EWS-CC-1465
For up to 10 years before filter replacement.
Select this system (or the EWS-SPECTRUM as an alternate choice¹) if you have all of the following:

- 4 (or less) bathrooms
- 4 (or less) people
- 1-2 water heaters

EWS CC 1865

Model #: EWS-CC-1865
For up to 10 years before filter replacement.
Select this system if you have ANY of the following:

- 5 (or more) bathrooms
- 5 (or more) people
- 2+ water heaters

CHLORAMINE**

CWL CC 1465

Model #: CWL-CC-1465
For up to 10 years before filter replacement.
Select this system (or the CWL-SPECTRUM as an alternate choice¹) if you have all of the following:

- 4 (or less) bathrooms
- 4 (or less) people
- 1-2 water heaters

CWL CC 1865

Model #: CWL-CC-1865
For up to 10 years before filter replacement.
Select this system if you have ANY of the following:

- 5 (or more) bathrooms
- 5 (or more) people
- 2+ water heaters

CHLORINE ¹

CWL SPECTRUM

Model #: CWL-SPECTRUM
Our most popular CWL system

Adjustable for 3/4" - 1 1/2" main water line. Up to 37 gpm.

¹ If your city water is treated by chloramine this system can still be very effective for 4 or less people with 4 or less bathrooms.

The only difference may be how long the filtration media may last.

- With Chlorine up to 10 years
- With Chloramine 7 years

Either way you cannot go wrong.

So the choice between the CWL SPECTRUM and the CWL-CC-1465 can be a customer choice based on price point or longevity of filter media.

Need Help? Call Us for Friendly & Helpful Assistance.

EWS Customer Service at 702.256.8182
or email us at customerservice@ewswater.com

All systems can be installed at any main water line using our adaptive digital valve that accommodates 3/4" - 1 1/2" water lines up to 37 gpm.
All systems self clean and are specified to last up to 10 years before any filter media replacement based on usage and water conditions.

**About 22% of people have tap water treated with chloramine (a corrosive combination of chlorine and ammonia). Chloramine requires more contact time (vs. chlorine) through a specialized filtration media to effectively filter it out of the water. EWS has designed systems specifically for handling chloramine (and does everything else the chlorine systems will do). See the chart above to determine the right system for you, your family and your home.

STOP

Are You On Well Water?

If you are on private or community well water, you need information to determine any water issues and their solutions. Well water requires complete and independent testing. Call EWS Customer Service at 702.256.8182 or visit **EWSWATER.COM** (see the Well Water Tab) for more information.

Warranty Notification - As Published and Available Online

Notification:

This warranty is referenced by EWS, Inc. in all literature, addressed in General Terms and Standard Conditions of Sale, and is published in its entirety in all EWS, Inc. product manuals, websites, and in all service guides supplied with all product.

Limited Warranty:

EWS, Inc., a Nevada corporation, hereby warrants all products to the original consumer purchaser to be free from defects in material and workmanship as stated in the following paragraphs:

- All residential point of use: countertop filtration, in-line filtration, undercounter drinking water filtration, shower filtration, residential reverse osmosis, and canister and filter cartridge point of entry pre-sediment and/or filtration units or systems for one year from date of purchase.
- All residential point of entry: pH decreasing and softener (resin and ion-exchange) systems, Environmental (EWS) Water Systems, Iron Removal units, CWL whole-home (filtration media) systems, pH increasing reagent (sacrificial media) units for 10 years on the tank and riser, 10 years on the ICN conditioner(s) (if applicable) and 5 years on the valve body and electronics from date of purchase.
- All commercial systems: Dependent on specification and application, please consult with EWS, Inc. upon specification.
- All filtration medias, resins, cartridges, uv lamps, and/or membranes are not covered by any warranty. Filter media, resin, cartridge, uv lamp, and/or membrane replacement or maintenance schedule will vary and must be replaced, as necessary, as determined by usage and local water conditions.
- Any wear and tear parts or any parts damaged in shipping, installation or application are not covered under warranty.

Product performance may vary based on local water conditions, proper product specification and application, proper plumbing application, setup, installation, startup, maintenance and/or usage. To ensure proper operation, follow all setup, installation, start-up and maintenance procedures as detailed in all service guides.

Not intended for use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after unit(s). The contaminants or other substances removed or reduced by these and any other water filtration or treatment devices are not necessarily in your water. To confirm the presence of any primary and secondary contaminants, have your water supply completely analyzed by an independent and approved facility or if applicable, contact your local water utility for information.

Aesthetic, non-health related, or constituents without set federal standards may be part of water testing but are insufficient to determine proper application of any water filtration or treatment device.

EWS, Inc. will replace, free of charge, during the warranty period, any part which proves defective in material and/or workmanship under proper product and plumbing specification and application, normal and proper installation, use, service and proper care as published in detail in all service guides included with product. Wear and tear parts such as pistons, spacers & seals are not covered under warranty. Labor charges are excluded from any warranty service or repair and are not the responsibility of EWS, Inc. Shipping charges may apply to delivered replacement parts or materials. Charges may also apply for the cost of any replacement media, resin, cartridges, uv lamp and/or membrane from any warranty service or repair. Information can be obtained at any time through a local dealer, distributor, representative or direct from EWS, Inc. and/or on-line at: www.ewswater.com. Replacement parts can be obtained from your local dealer, distributor, online or contractor.

This warranty is the exclusive warranty granted by EWS, Inc. and is in lieu of all other warranties of merchantability and fitness for a particular purpose and is further limited to defective parts replacement only. Labor charges and/or damage incurred in setup, installation, and startup, or repair, or replacement, as well as, incidental and consequential damages connected therewith, are excluded, and are not the responsibility of, and will not be paid by EWS, Inc.

This warranty is void for any damages due to improper product and/or plumbing specification and/or application, misuse, abuse, neglect, accident, acts of nature, action of any military or civil authorities, improper handling and transportation, or improper setup, installation, and/or startup, or any violation of instructions furnished by EWS, Inc., or any replacement parts other than genuine parts or replacements supplied by EWS, Inc.

This warranty is not a warranty of merchantability, fitness, taste, aesthetics, and/or performance that may be subject to improper product and/or plumbing specification and/or application, misuse, abuse, neglect, accident, acts of nature, action of any military or civil authorities, improper handling and transportation, or improper setup, installation, and/or startup, or any violation of instructions furnished by EWS, Inc.

This warranty is not a warranty of merchantability, fitness, taste, aesthetics, and/or performance that may be personal and of subjective opinion and that does not relate to the performance of any system.

Warranty Information and the Purchaser's Responsibility

Keep a record of the purchase receipt and/or installation receipt. Purchaser is required fill out warranty registration form(s) on applicable product(s) and register all product by either online @ www.ewswater.com, telephone, postal delivery, fax, e-mail (either register@ewswater.com or information provided to customerservice@ewswater.com). **Failure to do so voids the warranty unless restricted by state regulations.**

Privacy: EWS, Inc. does not sell, show or make available any information on any consumer in our database. This database is to ensure, if needed, proper warranty service, and good customer service for years to come. Please see our privacy policy published in our website at www.ewswater.com.

Know Your Water:

- If on a municipal system, large or small, it is your right as a consumer to have access to the most recent test results and to expect adherence to federal guidelines, as well as any state or local requirements. Any problems should be reported to the appropriate agencies. Please acquire those municipal test results to become an informed consumer.

- If on an individual well, have your water completely and independently tested. Local code may require a simple test for coliform bacteria to approve a well, however you may be unaware of potential problems for you and/or your home. A local water salesman is looking to close a sale and is going to test for hardness minerals and a few simple and obvious issues, which may or may not be contamination problems. Their solution is almost always the same and yet may provide no resolution to any true problems. Obtain our "Guide for the Private Well Owner" on our website; www.ewswater.com. Review our section on well water testing and applications in our complete catalog with your local distributor, dealer, or our representative or visit our website.

• WARNING:

Some restrictions apply to the use of softeners. Contact your local municipal water district or Gov't Agency. Brine discharge is already restricted on, or may be a problem for, septic applications and waste water treatment facilities. Since some states have already restricted softeners to metered valves to prevent excessive brine discharge, EWS, Inc. only provides metered valving in its line of softeners.

Restrictions or an outright ban may also apply to hot-side only, salt-exchange tanks or services. Local water dealers and other organizations do not inform consumers of these issues and believe these rules are unenforceable. The consumer is ultimately responsible.

Softeners may also provide warranty issues with pools and spas, certain other products and finishes. Softened water should not be used for drinking, cooking, pets or plants and is usually bypassed or "looped away" from the cold side of the kitchen sink. Reverse osmosis, which also has its drawbacks and issues with other products and materials, may be used to remove the salt from the water that the softener put in at the kitchen sink, yet may be misapplied for the actual local water conditions.

Any problems of water quality, or the fitness of any EWS, Inc. product that is associated with any mechanical, construction, application, installation, and/or environmental issue(s) (ie: flow rates, line pressure, piping materials, broken supply lines, changing water conditions; well or municipal water quality, et. al.), known or unknown, of the home or facility will not be considered by EWS, Inc. until such issue(s) have been resolved.

Responsibility for the proper product and/or plumbing specification, application and/or installation of any device manufactured by EWS, Inc. lies with the consumer, their builder contractor, plumbing sub-contractor and any other installer of choice. Items do not specify and/or install themselves. EWS, Inc. has provided many sources to acquire information on the proper application of systems and their installation prior to any purchase. EWS, Inc. manufactures a complete product line of point of use water filtration systems and point of entry filtration, softening and/or conditioning systems and/or appliances.

EWS, Inc. and the distributors of EWS, Inc. will stand behind the warranties of materials and workmanship. However, EWS, Inc. and the distributors of EWS, Inc. and the Environmental Water Systems Product Line do not bear any responsibility for improper applications of product and/or improper installation. It is for this reason that EWS, Inc. provides complete information on all product for your understanding, specification, application and selection, and proper plumbing application and installation.

To obtain warranty service support, contact your local dealer or contractor from whom you obtained the product or contact EWS, Inc., Customer Service, via phone, fax, or email.

The EWS, Inc./Environmental Water System Product available through:

Authorized Kitchen & Bath Showrooms, Appliance Showrooms, Building & Plumbing Wholesale Supply Locations and their building, plumbing, HVAC and service contractors, and Authorized Online Distributors.

EWS is a Proud Contributor and Sponsor of Organizations Dedicated to Improving Health, Well-Being and the Environment

- Heart • Lung & Respiratory • Allergy & Asthma • Dermatology & Skin • Digestive: Crohn's & Colitis •
- Oceans • Inland Water Ways • Wetlands • Forestry • Soil • Air •



ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA



ENVIRONMENTAL WATER SYSTEMS®
Quality Water Filtration Crafted in the USA Since 1987.

WWW.EWSWATER.COM

Customer Service Monday–Friday 8:00am–4:30pm PST
Office: 702-256-8182 Fax: 702-256-3744
customerservice@ewswater.com

EWS, Inc. Corporate Offices
5542 S. Ft. Apache Rd, Suite 110
Las Vegas, NV 89148