



**ENVIRONMENTAL WATER SYSTEMS®**  
*The Leader in Whole Home Water Filtration Since 1987.*

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# PRODUCT AND INSTALLATION MANUAL

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## Point of Entry 2 Stage Cartridge Filtration



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

**Model Number:**

**CS-BB-FUGAC200A-1**

**ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA**



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Retain this Product & Installation Manual for Maintenance and Information  
Please Register this Product - It is a Requirement for Warranty

Revised 4/17

# Point of Entry, Two Stage Cartridge Filtration Unit

**Model: CS-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



Picture:  
Fully Assembled CS-BB-FUGAC200A-1

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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

## Technical Information: CS-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.

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  
CS-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

## 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

## SET-UP, INSTALLATION OF UNIT & BYPASS AND START-UP:

1. Unpack the unit. Unit comes completely assembled with the following:  
Pre-Sediment and Post Carbon filters, housings with mounting bracket and spanner wrench
2. Identify an appropriate mounting location adjacent to the water line intended for installation.  
Unit can be mounted in indoor or outdoor locations.

**WARNING:** Never allow unit to freeze. Avoid temperatures above 120°F.  
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:** 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 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.
7. Affix a plumber service label or card on unit and record installation date. Leave this booklet and warranty booklet with unit and/or consumer. Replace filters up to one year after initial installation and/or at regular or needed intervals.\*\*

**WARNING:** It is recommended that working pressure does not exceed or surge above 75 PSI and that a working PRV be installed to control high household pressure and/or pressures surges.

### REPLACEMENT FILTERS

Part No.	Description	Replacement Time**
BB-PRESED-50-SW	50 Micron String Wound Sediment Cartridge	Up to a Year
BB-GACB-10-RFA	20" Carbon Block Radial Flow Cartridge	Up to a Year

\*\*Up to one year or as needed, based on local water conditions, usage and flow rates. Diminished flow rate or filtration issues indicates cartridge change needed. Application for known municipally treated or well water of known quality. All warranties and application requirements apply. For other performance requirements or applications, other models are available.

### 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:** This step is important to ensure proper seal. Make sure the O-Ring is seated level in the groove.

**CAUTION:** If O-Ring appears damaged or crimped it should be replaced at this time.  
See your local dealer for replacement parts.

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 filters slide down over the housing stand-pipe found at the bottom of the housing.

**CAUTION:** The standpipe must insert properly into the bottom of the filter before you go to Step # 7

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

**WARNING:** Do not overtighten or cross thread

**CAUTION:** Make sure the top standpipe found at the base of the black cap seats properly into the top of each filter.

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



Pictured:  
CS-BB-FUGAC200A-1 with Spanner Wrench and filter cartridges, BB-PRESED-50-SW and BB-GACB-10-RFA

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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.



Contact Information:

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**Got a Question..?**

Seriously.... Give us a call. We're here to help.

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