

Big Brand Water Filter Inc.

FS Series Water Filter System Installation Manual

This manual covers the following systems:



FS10S-1



FS10S-2



FS10S-3



FS20S-1



FS20S-2



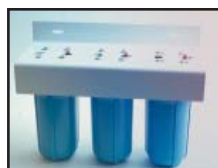
FS20S-3



FS10B-1



FS10B-2



FS10B-3



FS20B-1



FS20B-2



FS20B-3

Including Mega-Flow, Iron-Max and Sedi-Max models.

Big Brand Water Filter, Inc. recommends that all systems are installed by a licensed plumber or water treatment professional. If you are attempting to install this system on your own without a licensed professional it is recommended that you familiarize yourself with state and local plumbing codes and only install your system in a manner that meets all applicable code requirements.

This Water System has been designed for quick and simple installation and maintenance. By carefully reading this instruction manual and following the operational guidelines you will insure a successful installation and reliable operation. Routine maintenance is essential to the longevity and performance of the system. Filters should be changed every three to twelve months depending on the quality of the feed water supply.

System Installation

It is recommended that you securely attach the system to the wall or undersink mounting space. Use a stud finder and mount the system to studs or wood beams, not to drywall. A FS20B-3 system weighs 52 lbs. dry and can weigh as much as 70 lbs when full of water. If you mount the system to drywall it may rip from the wall possibly causing damage.

It is not recommended to hang the system from the pipes. During filter changes, removing and replacing the housings will put a side load on the pipe threads and can result in leakage.

All Big Brand Water Filter FS systems have a maximum pressure rating of 90 psi and a maximum temperature rating of 100 Degrees Fahrenheit. You must have a pressure regulator installed prior to your filter system to prevent pressure surges. It is not uncommon for city water pressure to spike as high as 200 psi. Pressure spikes can cause the housing to burst and flood your residence/facility.

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O-Rings - Each filter housing has an o-ring that goes in the groove in the sump before attaching the sump to the cap. The o-ring must be lubricated with FDA/NSF approved o-ring lubricant. This lubricant is available from Big Brand Water Filter, Inc. It is recommended that you keep a few spare o-rings on hand. After a few years the o-rings flatten resulting in drip leaks. Over-tightening the housings may cause a housing to crack resulting in flooding. If you feel you need to overtighten the housing to stop drip leaks it is probably time to replace the o-rings. If you have a steady stream of water coming from the sump to cap mating area the o-ring may have slipped from the groove and is pinched



Filter Housings - Each system has a filter wrench specifically designed to fit the housing. Use of a pipe wrench, channel locks or other metal tools may compromise the integrity of your filter housings. It is recommended that you only use a Big Brand Water Filter, Inc. supplied filter wrench to remove and replace your filter housings.



Direction of Flow - The FS system can flow from left to right or from right to left. If the flow direction is not correct for your installation as supplied from the factory simply remove the bracket, rotate it 180 degrees and reinstall it in the correct direction. Note the arrow on the filter housing cap (photo to the right) showing direction of flow.



Replacement Filters - All Big Brand Water Filter, Inc. FS filter systems use industry standard filter cartridges.

All Big Brand Water Filter, Inc. filters have passed stringent water quality standards. Use of inferior imitation filters may compromise the quality of your water. Lower cost filters may not use FDA approved plastics, glues or media. It is recommended that you only purchase genuine replacement filters from Big Brand Water Filter, Inc.



A complete install (left) - This system in sequence includes a FS20B-1 prefilter (5 micron pleated sediment cartridge), 1 cubic foot backwashing carbon system, 1 cubic foot water softener, FS20B-2 double big blue polishing filter with a radial flow carbon and 1 micron absolute sediment filters and finally a UV disinfection system to control microbial growth now that the chlorine is removed from the water. Note the use of a three ball valve bypass should there be a leak or other system problem. One ball valve before the system, one ball valve after the system, then a pipe that goes above the system for bypass with a ball valve to open/close the bypass leg.

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To reverse system flow, filter housing can be removed by taking out the screws from the top of the bracket. The filter housings can be rotated 180 degrees and reinstalled.



FS20B-2 filter system completed installation using stainless steel flex lines available from Big Brand Water Filter, Inc. Flex lines are available in 3/4", 1" and 1 1/2" sizes and in 18" and 24" lengths.

System Plumbing

If you are connecting your system to copper piping be sure to use a union connector and do not overtighten copper or brass nipples into the plastic housing cap. Overtightening will cause the cap to crack. Nylon pipe nipples are available from Big Brand Water Filter, Inc. Be sure to use plenty of teflon tape on both plastic and metal pipe nipples to avoid leakage. See photo on left page.

Activating the System For the First Time

When inserting filters into the housings it is recommended that you try not to touch the filters with your hands. If possible, remove the plastic wrapper and insert the filter holding it by the wrapper.

- 1) Fill each filter housing approximately 1/3 full of water and add chlorine bleach to each filter housing to sanitize the system. For FS10S undersink systems 1/2 teaspoon of bleach per housing is adequate. For FS20S systems 1 teaspoon of bleach per housing is recommended. For FS10B and FS20B systems you may use 1 teaspoon up to 1 ounce of bleach per housing or more depending on the application. If you are trying to sanitize the water system and all of the household piping downstream of the system it may take several ounces of chlorine bleach to achieve high enough levels of chlorine in the piping.
- 2) Bleach must be flushed from the entire water system before drinking or bathing in the water!
- 3) Make sure all water supply/drain lines are secure and free from leakage.
- 4) Slowly turn on the water supply and check for leaks.

FS10S Systems

If you are installing a drinking water system, open the faucet until you smell chlorine then close the faucet for 30 minutes. After thirty minutes flush the system by running it for 10 minutes before consuming any water. If you still smell chlorine continue to flush the system until the chlorine odor is gone. Big Brand Water Filter, Inc. recommends testing the water with our 5 in 1 test strips or other chlorine test kits to make sure all of the chlorine is flushed from the system before consumption.

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FS20S, FS10B and FS20B Systems

Open the faucet in the house farthest away from the drinking water system until you smell chlorine, then close the faucet. Progressively move from the farthest to the closest fixture each time opening the faucet, kitchen and bath fixture until you smell chlorine then close the fixture. Leave the chlorine in the piping system for 30 minutes then flush each fixture. This will properly sanitize the household piping system. If you are on well water it is recommended that you also sanitize your well, storage tank and other piping and filtration equipment at least once per year. Regular chlorination is recommended on water supplies that have tested positive for microorganisms.

The system pictured (right) is a custom shower with hand-held shower head, rainshower and body sprays all run by the system pictured on the previous page. A five head system such as this requires 12.5 gpm flow rate. This is peak flow for the system used. Moving to larger diameter carbon and softener tanks will reduce pressure loss to some degree. While a 20" Big Blue is rated up to 30 gpm there will be a significant pressure loss at these higher flow rates. During annual chlorine sanitizing it is important to get the chlorine through all of the shower heads, body sprays and other plumbing fixtures.



Big Brand Water Filter, Inc FS Series System Warranty

Big Brand Water Filter, Inc. warrants its FS series system to be free from defects in materials and workmanship under normal use for a period of five years from the date of purchase. Big Brand Water Filter, Inc. will repair or replace any part of the FS Series System with the exception of the filters and O-rings.

Conditions of Warranty

The above warranty shall not apply to any part of the Big Brand Water Filter, Inc. FS Series System that is damaged because of neglect, misuse, alteration, accident, misapplication, physical damage, fouling, minerals, bacterial attack, sediment or damage caused by fire, freezing, hot water, or an Act of God.

Big Brand Water Filter, Inc. assumes no warranty liability in connection with this FS Series System other than as specified herein. Big Brand Water Filter, Inc. shall not be liable for consequential damages of any kind or nature due to the use of Big Brand Water Filter, Inc. equipment.

Warranty service will be provided by Big Brand Water Filter, Inc. under the following conditions:

- 1) Contact Big Brand Water Filter, Inc. to obtain return authorization instructions and shipping information.
- 2) Ship the unit or part freight prepaid to Big Brand Water Filter, Inc. for warranty evaluation or service. Unit must be returned in the original carton or packaged to prevent possible damage. Systems or parts covered under the warranty shall be repaired (or, at our option replaced) and returned without charge.

Neglecting annual filter changes voids this warranty. Failure to perform regular maintenance will cause the system to underperform and may not meet water quality standards.