

USWater[™]
systems.com

Bodyguard Fluoride Removal Filter

117-PFF-XXX



BODYGUARD[™]
FLUORIDE REMOVAL FILTER

Table of Contents

Unpacking and Inspection	3
Safety Guide	3
US Water Bodyguard Fluoride Removal Filter	4
Benefits	4
Before Starting Installation	5
Proper Installation	5
Specifications	6
System Dimensions	7
Plumbing View	8
Installation	9
Warranty	17

Unpacking and Inspection

Be sure to check the entire unit for any shipping damage or lost parts. Also note damage to the shipping cartons. Contact US Water Systems at 1-800-608-8792 to report any shipping damage within **24 hours of delivery**. Claims made after 24 hours may not be honored. Small parts, needed to install the unit, will be in a parts bag. To avoid loss of the small parts, keep them in the parts bag until you are ready to use them.

Safety Guide

- Check and comply with your provincial / state and local codes. You must follow these guidelines
- Use care when handling the system. Do not turn upside down, drop, drag, or set on sharp protrusions
- **WARNING:** This system does not remove biological contaminants. US Water Systems recommends that bacteria levels be checked periodically to ensure there is no bacteria present. Coliform and E.coli most importantly.

US Water Bodyguard Fluoride Removal Filter

The Bodyguard Fluoride Removal Filter is designed to function as part of the Bodyguard Whole House Chemical Removal Filter System. This is an eco-friendly, carbon neutral filter, specifically designed to remove or reduce fluoride through prolonged contact.

Benefits

- Treats up to 400,000 gallons or 3 years
- Extremely User Friendly
- Easy to install
- Wastes no water
- Uses no electricity
- Lifetime Warranty on Media Tank and Head Assembly
- 3 Year Warranty on Media
- 5 Year Performance Warranty
- 90 Day Satisfaction Guarantee

Before Starting Installation

Proper Installation

This water system must be properly installed and located in accordance with the Installation Instructions before it is used or the warranty will be void.

- **Do not** install or store where it will be exposed to temperatures below freezing or exposed to any type of weather. Water freezing in the system will break it. Do not attempt to treat water over 100°F
- **Do not** install in direct sunlight. Excessive sun or heat may cause distortion or other damage to non-metallic parts.
- Maximum allowable inlet water pressure is 100 psi. If daytime pressure is over 80 psi, night time pressure may exceed the maximum. Use a pressure reducing valve to reduce the pressure.
- System must be operated in a vertical position. Do not lay it down during operation.
- A bypass valve should be installed on every system to facilitate installation and service.
- Observe all local plumbing and building codes when installing the system.

Specifications

Please review operating pressures, temperatures and water chemistry limitations to ensure compatibility.

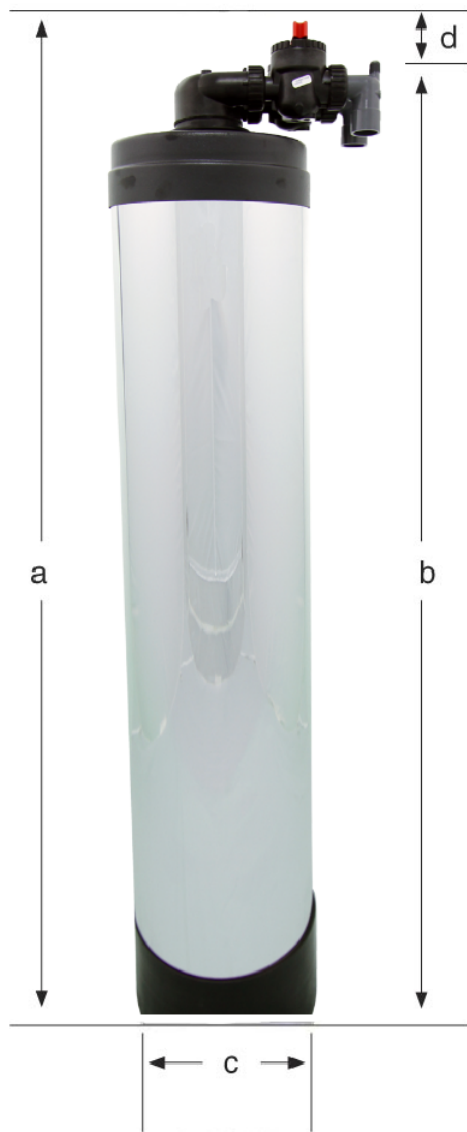
Specifications	117-PFF
Inlet/Outlet Connection	3/4" - 1" QC
Temperature	40°F - 110°F
pH	6.5 - 8.5
Chlorine	< 0.1 mg/L
Ferrous Iron	< 0.1 mg/L
Water Pressure	15 min, 100 max (PSI)

Due to the unique properties of the Fluoride media, there are some requirements for using the Bodyguard Fluoride Removal Filter in conjunction with other filtration or forms of water treatment.

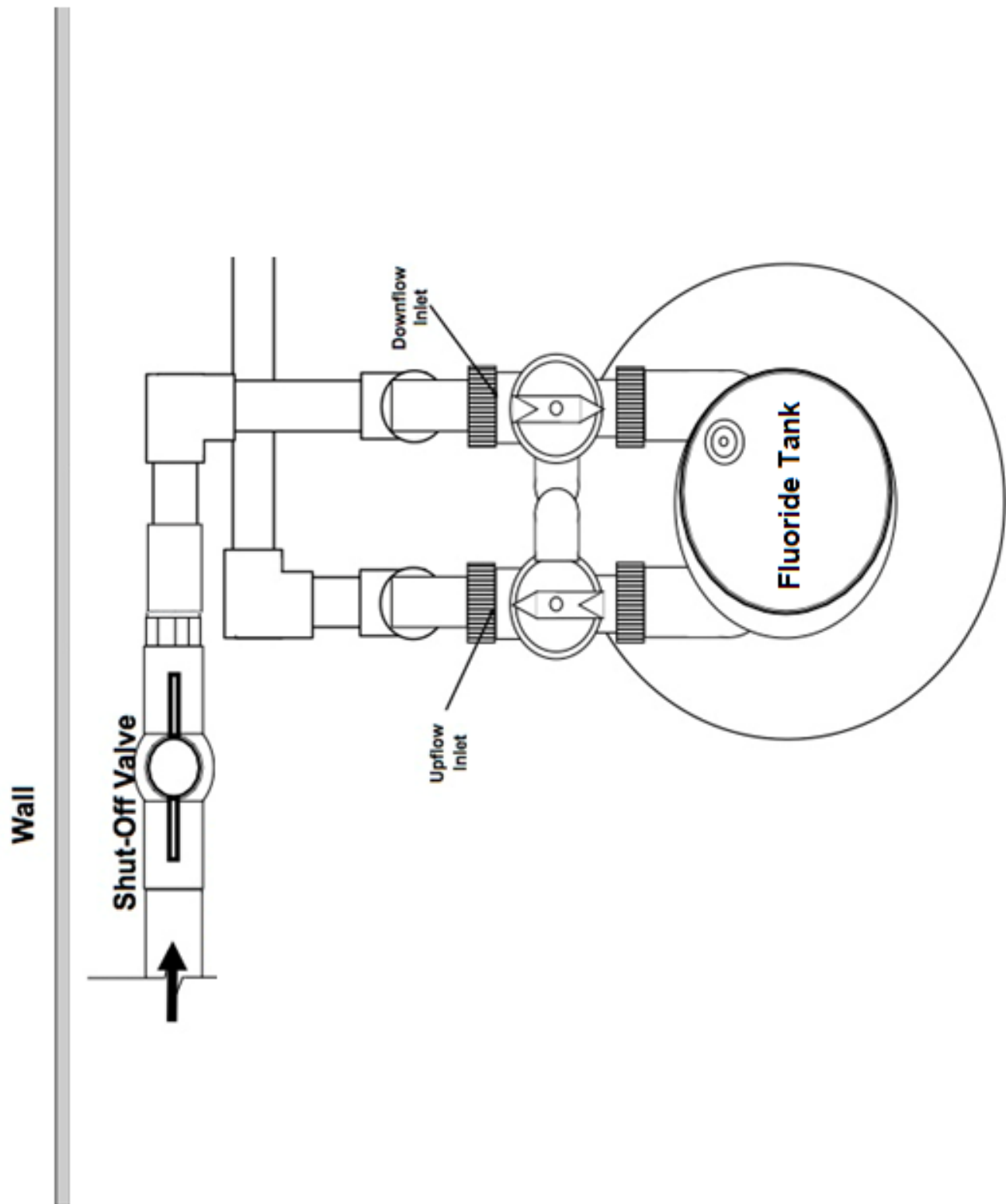
- Do not apply phosphate or any other anti-scalant before the Fluoride filter.
- Iron or other "blinding" contaminants should be removed prior to the Fluoride filter.
- Do not use the Fluoride filter on water with chlorine concentrations higher than 0.1 mg/L (ppm). If concentrations are in excess of this, a US Water Bodyguard Whole House Chemical Removal Filter or equivalent should be installed prior to it.

System Dimensions

Dimensions	PFF-10	PFF-15	PFF-20	PFF-25
A	52.5"	58.5"	56.5"	58.5"
B	50"	56"	54"	56"
C	9"	10"	12"	13"
D	2.5"	2.5"	2.5"	2.5"



Plumbing View



Installation

1. Remove the tank from the shipping carton.
2. Verify the riser tube is centered in the bottom of the tank. There is an indentation in the bottom of the tank that will allow the distributor tube to be centered. A flashlight may be needed to verify the tube is in the center of the tank.



3. Ensure that the supplied clear, plastic cap is installed on the distributor tube.

4. Use the Blue Funnel provided to pour the media into the tank. The order the media is poured in is important. Begin by pouring the media labeled as Quartz Gravel into the bottom of the tank. Pour it evenly around the hole to ensure it is well distributed in the tank and pour slow enough to keep from plugging the hole. Then proceed to pour the media labeled as Bone Char Media. A helper may be needed to hold the funnel during the filling process.

NOTE: It is recommended that a dust mask and safety goggles be worn to prevent possible injury.



5. When media is installed, move the tank side to side to settle the media. Remove the funnel and cap from the distributor tube.
6. If possible, pour enough water to cover the media inside the tank and allow it to soak for 30 minutes. This will ensure a better flush cycle. After 30 minutes, proceed to the next step.
7. Lubricate the inner and outer O-ring of the in/out head.

8. Install the upper basket on the bottom of the head by lining up the tabs then turning the basket clockwise to lock it in place. Place the upper basket over the distributor tube and push the head on the tank. Thread the head on the tank by turning it clockwise. Be sure not to cross-thread the head on the tank.



9. Place the Bodyguard Fluoride Removal Filter tank in the desired location. Typically this is at the water inlet of the home.

10. Prepare the tank connections by installing the nut on the elbow connector. Push the split white ring down over the elbow fitting to the second groove. Use the supplied silicone grease to lubricate the O-ring. Slide the O-ring over the elbow fitting and put it in the first groove. Make sure the O-ring is not twisted.



11. Lubricate the O-rings on the supplied bypass with the silicone grease. Install the bypass on the tank and fully tighten the retaining nuts. The bypass will move slightly once tight. It is made to flex and move and will not be rigid. Be sure the O-rings are lubricated on the elbow connectors previously assembled. Install the elbows in the bypass valve and tighten the retaining nuts. These will move when tight. They are made to flex just like the bypass valve connections.

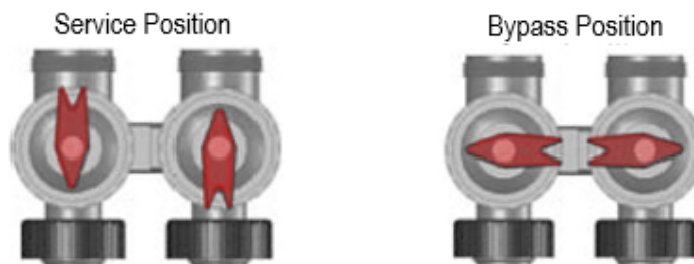


12. Connect the inlet piping to the inlet port (Downflow Inlet) on the Fluoride Removal tank.



13. Place a bucket under the outlet port (Upflow Inlet) of the Fluoride tank or run a line from the outlet port of the tank to a drain. Place the bypass in the service position.

14. Slowly open the main supply valve (user supplied) to the Bodyguard Fluoride tank. Allow the tank to fill with water. Close the supply valve when a steady stream of water comes out of the outlet port and the water is running clear.



NOTE: If you see any actual pieces of bone char, immediately bypass the system. If pieces of bone char are coming out of the fluoride tank, there could be an internal problem. Small fines or tinted water is normal.

15. Once the Bodyguard Fluoride Removal Filter system is flushed, connect the Outlet (marked UpflowInlet) of the Bodyguard Fluoride Removal Filter tank to the CTS or PEX cold water supply feeding the rest of the home.



16. Open faucets downstream from the Bodyguard Fluoride Removal Filter system to relieve any trapped air.
17. Check for leaks. Repair as needed.
18. The system is now ready for service.

Warranty

For the lifetime of the original purchaser, at the original residential place of installation of this US Water Water Conditioning System, **US WATER SYSTEMS, INC.** warrants the following:

LIFETIME COVERAGE: Media Tank -

Free of all costs to you except transportation and labor charges, we warrant that we will replace or repair the fiberglass media tank and the control valve body, if for any reason it is found to be defective, because of faulty materials or workmanship.

LIFETIME COVERAGE: Head Assembly -

We warrant that, for life from the date of purchase, we will replace the head assembly at no charge to you except for transportation and standard labor charges.

3 YEAR WARRANTY: Media Warranty -

We warrant that from the date of purchase, we will warranty the media in the Fluoride for three (3) years, inclusive of shipping or transportation charges.

GENERAL PROVISIONS - This warranty does not apply to any commercial or industrial installations or to any part of the water conditioner which has been subjected to misuse, neglect, alteration or accident; or to any damage caused by fire, flood, freezing, Acts of God, or any other casualty, or if the original serial numbers have been removed.

These warranties are in lieu of all other warranties expressed. or implied, and we

do not authorize any person to assume for us any other obligation on the sale of this water conditioner. No responsibility is assumed for delays or failure to meet these warranties caused by strike, government regulations or other circumstances beyond the control of US WATER SYSTEMS, INC..

To obtain warranty service, call or write: US WATER SYSTEMS, INC. 1209 Country Club Road Indianapolis, IN 46234 (800) 608-USWA.

ANY IMPLIED WARRANTIES OF FITNESS OR MERCHANTABILITY ARE LIMITED TO THE TERMS OF THIS EXPRESSED WARRANTY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE HEREIN. US WATER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitations of incidental or consequential damages so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THIS WARRANTY MAY BE TRANSFERRED TO A SUBSEQUENT OWNER WITH WRITTEN APPROVAL OF US WATER AND PAYMENT OF STANDARD TRANSFER FEE.