



Clean Water Made Easy

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4 CF Upflow Carbon Installation & Start-Up Guide

Thank you for purchasing a Clean Water System! With proper installation and a little routine maintenance your system will be providing treated water for many years.

CARBON MEDIA CONTAINS DUST. USE PAPER MASK AND VENTILATE TO AVOID BREATHING DUST



Questions?

Call us toll-free: 1-888-600-5426 or 1-831-462-8500

Email us: support@cleanwaterstore.com

See more information on our website: www.cleanwaterstore.com/resources



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PACKING LIST:

Carbon Upflow 4 Cubic Foot:

Your new 4 Cubic Foot Upflow Carbon filter includes:

Qty 1 – 16" x 65" Poly Glass Filter Tank

Qty 1 – 1 ½" diameter Distributor Tube with Bottom Basket

Qty 1 - In/Out Head with Top Screen

Qty 4 – 1 CF boxes Coconut Shell Carbon (Standard or Catalytic)

Qty 1 – 50lb box of gravel

Pre-Installation

1. Review your packing list and make sure you have received all the parts before beginning installation.
2. If you are going to be turning off the water to the house and you have an electric water heater, shut off the power to the water heater before beginning installation.
3. Pick a suitable location for your filter system on a dry level spot where it won't be exposed to freezing temperatures. A minimum of 20 PSI is required. Maximum pressure is 90 PSI.
4. Get all of your plumbing parts together before beginning installation. Installation typically takes 3 to 5 hours. Once completed and pressure tested you will want to run the water in your home for 15 – 20 minutes to clear out any fines from the new media.
5. After the system is installed and running, your water may be temporarily discolored particularly if the system is installed into older or corroded piping. This typically clears up over a day or two.

Best Practices for Piping & Drain Installation

1. If you are setting up your filter to be an Upflow filter, connect the **water inlet to the “OUT” port on the In/Out Head and water outlet to the “INLET” port (diagram below)**. The water should flow down the distributor tube and up through the filter media.



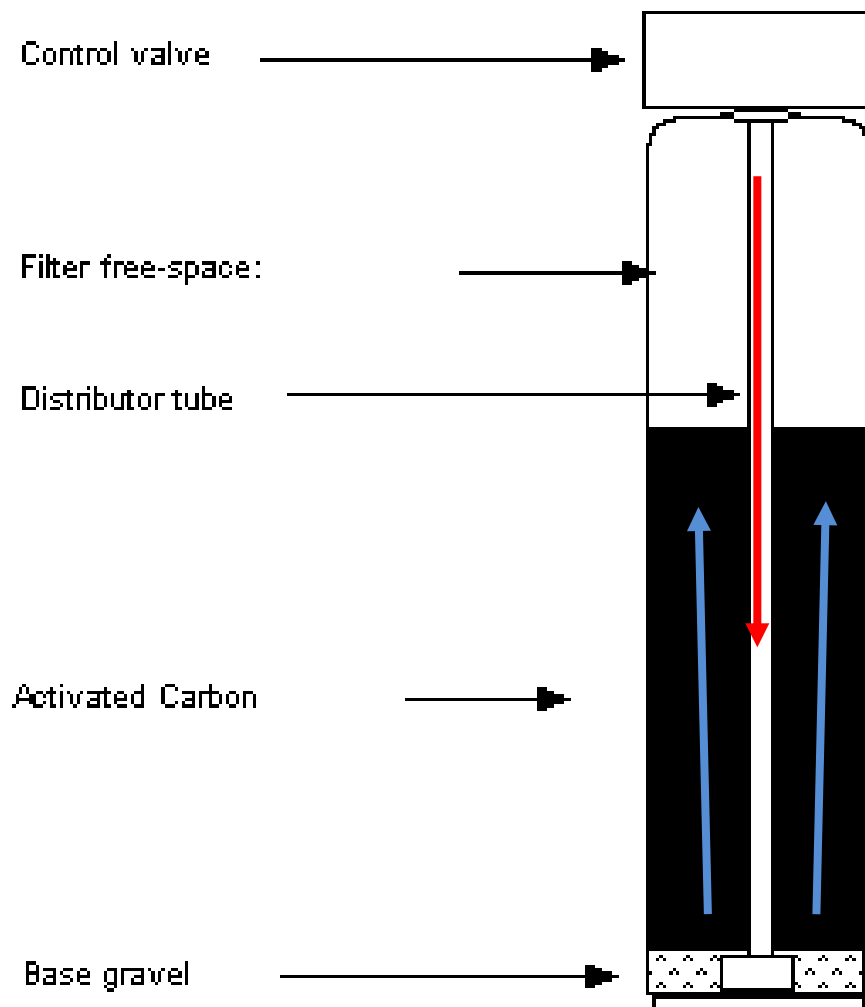
2. Make sure there is a working gate or ball valve before the Upflow Carbon filter and also one after. Pressure gauges are optional and perhaps not necessary but a hose bib (which is a faucet that you can attach a garden hose to) or better yet a ball valve on a tee is required after the carbon filter and before the second ball valve. This allows you to rinse your new filter on start-up and gives you a place to test the water before it enters your household plumbing.
3. It is also advised to plumb in a bypass loop around your system to isolate your system for service or maintenance.
4. If you will be using copper piping, do not sweat the copper pipe directly on to the filter. Avoid heating the plastic.
5. Use no more than 2 wraps of thread tape and pipe sealant to seal the inlet and outlet port threads.

WARNING: Do Not Overtighten fittings or use more than 2 wraps of thread tape as you may crack the inlet/outlet head.

How Your Carbon Filter UpFlow Works:

See Fig 1. In your Carbon Filter water enters the top of the tank and flows down through the distributor tube and up through the carbon media.

Figure 1 - Upflow Carbon tank diagram



Upflow Carbon Filter Piping Layout



When first starting up after adding new carbon media:

1. Add carbon media and fill with water.
2. Allow to soak for at least 2 hours but 8 to 12 hours or overnight is best for soaking time.
1. Close Valve 2
2. Connect garden hose to Hose bib and turn on water and allow carbon to rinse to drain for 20 to 30 minutes.

Assembly and Installation Instructions

1. Place the distributor tube in the tank. Cover the top of the distributor tube or wrap the top of distributor tube with electrical or duct tape. **You do not want any carbon to go down the distributor tube, this is very important!**

Make sure top of distributor tube is level with top of tank



Upflow Carbon Installation & Startup Guide

2. Center the Distributor tube within the top tank opening.
3. Add the gravel first and then the carbon media.
4. Remove cap or tape from the top of the distributor tube.
5. Fill the tank completely with water. This will allow the carbon media to settle and eliminate the need of “purging” the air out of the tank later.
6. Allow carbon to soak for at least 2 hours but it’s better to let it soak for 12 to 24 hours to purge any trapped gasses.
7. Lubricate the IN/Out head and Distributor Tube O-rings with the provided food grade silicone packet.



8. Install Top Screen onto the IN/Out Head



9. Thread the inlet/outlet head and secure down onto the tank. (NOTE: Do not use any thread tape or lube on the threads. The seal is made by the O-ring)
10. Connect the **IN pipe to the Outlet port and the Outlet pipe to the Inlet port.**
11. Put system on bypass, and the valve after the filter closed, open the hose bib tap after the carbon filter and allow water to run for a couple of minutes to flush out piping materials.
12. Now take the Carbon filter off bypass. With the valve after the filter closed, allow the up-flow carbon to flush for 20 to 60 minutes through the hose bib. This is necessary to flush out carbon fines and dust. The water will be discolored to be black in color at first.

Maintenance

Make sure to occasionally monitor the chlorine residual after the carbon filter, there should be very little to no chlorine coming out of the carbon filter. After 1 to 3 years (depending on usage), or when you start to detect a chlorine residual in the water after the carbon filter, replace the carbon media with new carbon.

Need Assistance?

Call us at 831-462-8500 or email support@cleanwaterstore.com

Water Filters Limited Warranty

We warrant this water filter/ softener/ conditioner, when installed according to factory recommendations, to be free from defects in materials and workmanship as follows:

-----Limited Warranty-----

This water conditioner unit is comprised of the finest industry components available. Each individual component used in the assembly of our equipment is covered by the original equipment manufacturer's warranty. All components, except those specifically listed below, are warranted for a period of one (1) year from date of installation to the original purchaser to be free of defects in materials and workmanship subject to the manufacturer's conditions and/or the conditions shown below.

-----Mineral Tanks-----

The fiberglass, polyglass or composite mineral tanks used in the assembly of this unit are warranted to be free of defects in materials and workmanship for a period of ten (10) years on 6" – 13" size tanks, and five (5) years on 14" and larger size tanks used for softener/filtration applications, subject to the manufacture's conditions and/or the conditions shown below. Warranty does not cover exposure to weather, freezing, fractures caused by external impact, or exposure to vacuum.

-----Control Valves-----

The CWS control valve is warranted to be free of defects in materials and workmanship for a period or seven (7) years, subject to the manufacturer's conditions and/or the conditions shown below. Fleck & other brand control valves have 5-year warranty.

-----Conditions-----

1. This warranty only covers water conditioners installed for residential use. Water conditioners installed for commercial or industrial applications are guaranteed for one (1) year from the date of installation.
2. Installation must be made in accordance with legal or local codes and manufacturer's recommendations.
3. Failure must not result from exposure to weather, rodents, misuse, alteration, fire, lightning, power surges or neglect.
4. Water pressure must not exceed 100 PSI and water temperature must not exceed 100 degrees.
5. Subject to the above terms and conditions we will replace and/or repair, at our option, any parts of the water conditioner found defective in materials and workmanship. Defective parts must be returned, freight pre-paid for repair or replacement.
6. This warranty does not cover labor, shipping charges, damages caused by delays of consequential damages or other causes beyond our control. Warranty does not cover pipes, fixtures or appliances. Warranty extends to the actual water conditioner components only.
7. This warranty is to the original purchaser and is not transferable after the third year to any subsequent owner(s).
8. No other guarantees or warranty, expressed or implied, is applicable to our product. No repair or replacement made under the terms of the warranty shall extend this warranty.