

# **THE ELIMINATOR WATER FILTER** **INSTALLATION**

**Discount Water Softeners recommends using a licensed plumber to install your water filter. The following installation instructions are for use with the water filter system you now own. Discount Water Softeners assumes no responsibility for improper installation or injury.**

**Additional instructions are also in your water filter manual. Please print these instructions and use them in conjunction with your manual for installing and programming your system.**

## **Step 1:**

**Location of your filter is important. It should be in a protected dry, level and non-freezing area (34-120 degrees F). The 2 tanks should be set close to each other. The small round tank is your solution tank (chlorine solution) and it is the tank that you will have to refill with chlorine and water from time to time, so make it the more accessible of the 2 tanks. Do not put anything in this tank until you have put the filter into service and have tested the cycles. If you have a water softener, be sure to install the eliminator first inline in your home.**

## **Step 2:**

**You will need a standard outlet that is not controlled by a switch. You should also have a floor drain located nearby.**

## **Step 3:**

**The single riser tube should be placed in the filter tank with the distributor basket end down. The filter tank (fiberglass construction) is the taller of the two tanks and shown in the following picture. Turn the tube a couple times to make sure that the bottom basket seats properly in the bottom of the tank. **Make sure the riser tube is in the tank BEFORE YOU ADD THE CARBON!** If your system came with a small bag of gravel, add the gravel before the carbon.**

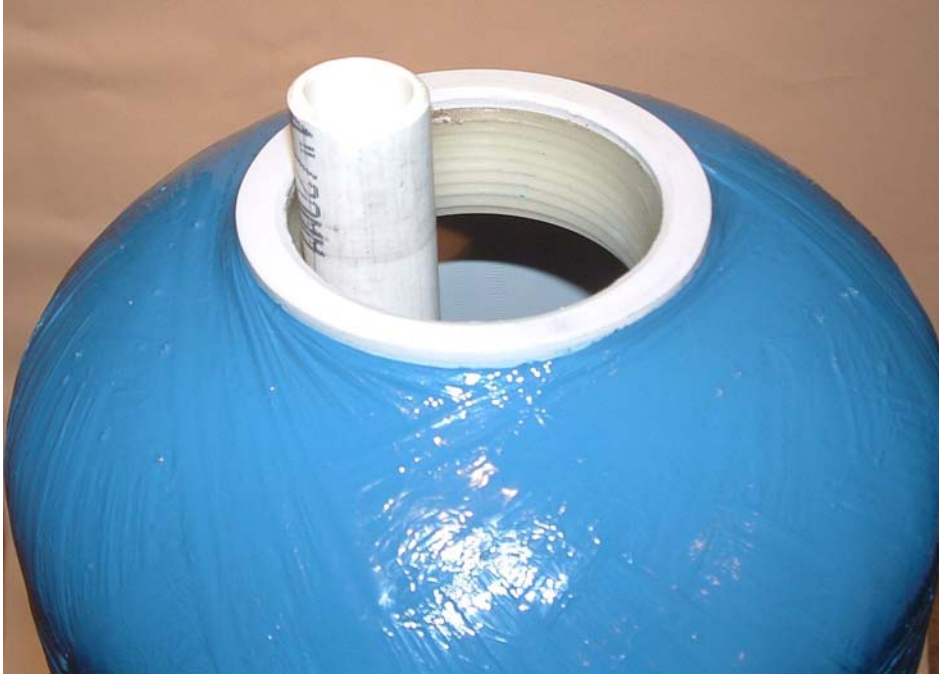


**Step 4:**

**Make sure you place the filter tank shown above where you want to connect it to your water line because it will be heavy and difficult to move after the carbon is added. Make sure you install your filter in line before your water softener.**

**Step 5:**

**Be sure to cover the open upper end of the riser tube with tape or a cap as shown below to keep any gravel or carbon from falling into the riser tube while pouring the gravel or carbon into the filter tank. Try to pour the carbon in slowly as it can cause a black dust that is unhealthy to inhale. Remove the tape after filling the tank.**



**Step 6:**

Place the funnel into the filter tank as shown below, and slowly pour the gravel and carbon into the filter tank. **Caution: If you purchased a filter that came with a bag containing gravel, you must add the gravel first before the carbon.**



**Step 7:**

Be careful to keep the riser tube centered as best you can, while filling. Once the filling of the filter tank is completed, **carefully remove the tape from the riser tube. Do not pull upwards on the riser tube.**

If you purchased a Fleck 5600 Eliminator system, continue to step 9. If you purchased a Fleck 7000 Eliminator skip to step 13

**Step 9:**

The control valve head can now be screwed onto the filter tank. Be sure the large O-ring is in place, and lubricated. As you start to screw the control valve onto the tank, make sure the hole in the center of the control valve fits over the riser tube. The control valve should be hand tightened, snug and tight to eliminate a possible leak, clockwise.



**Step 10:**

You are now ready to install the bypass valve and yoke to the control valve. Turn off main water valve. Water connections to and from filter should now be connected. For Fleck 5600SE filter systems you will need to install your bypass along with either your plastic male threaded connections or stainless steel threaded connections. The plastic or stainless steel fittings will need to be screwed on to your

existing piping. **CAUTION: YOU MUST PAY ATTENTION TO THE IN AND OUT ARROWS ON THE VALVE TO BE SURE THE FILTER IS PIPED PROPERLY.**



**Step 11:**

You will need a drain for the backwashing cycles. This should be no longer than 20 feet from the water softener. You will need to purchase this flexible 1/2 i.d. plastic pipe (can be vinyl, polyethylene etc.) and a small clamp to hold the tubing over the fitting. This backwashing drain line will be under high pressure when the backwash cycle is working. Make sure the drain line is secured. The drain line will need to drain into a drain, which should be a minimum of 1 1/2" size, and ideally be below the top of the head of your softener. Local codes should be adhered to. (be sure to use teflon tape on this step).





**Step 12:**

**You will now need to connect the solution tank line to the water filter valve. Attach the clear tubing provided from the solution tank to the connection fitting on the valve as shown below. You may need to connect the pick up screen inside the tank and run the tubing through the top hole in the solution tank and connect to the compression fitting elbow.**



If you purchased a Fleck 5600 Eliminator system, skip to step 16. If you purchased a Fleck 7000 Eliminator continue to step 13

**Step 13:**

You are now ready to install the bypass valve to the control valve Use the red clips provided to hold the connection fittings to the bypass and the bypass to the valve. Be careful not to force the red clips on or off the valve as they can break. Turn off main water valve. Water connections to and from softener should now be connected. For Fleck 7000 systems you will need to install your bypass along with either your plastic threaded connections or brass “sweat” fittings. The plastic fittings can just be screwed onto your connections. Brass connections will need to be “sweated” in. **CAUTION: YOU MUST PAY ATTENTION TO THE IN AND OUT ARROWS ON THE VALVE TO BE SURE THE SOFTENER IS PIPED PROPERLY.**



**NEVER REMOVE ANY RED CLIPS FROM THE FLECK 7000 SYSTEM WHILE UNDER PRESSURE.**



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**Step 14:**

**You will need a drain for the backwashing cycles. This should be no longer than 20 feet from the water softener. You will need to purchase this flexible 1/2 i.d. plastic pipe (can be vinyl, polyethylene etc.) and a small clamp to hold the tubing over the hose barb fitting supplied. This backwashing drain line will be under high pressure when the backwash cycle is working. Make sure the drain line is secured. The drain line will need to drain into a drain, which should be a minimum of 1 1/2" size, and ideally be below the top of the head of your softener. Local codes should be adhered to. On the Fleck 7000 there is a side connection where you will connect this drain line.**





**Note: Never connect the drain line directly into a drain. Allow an air-gap between the drain line and waste line to prevent possibility of back- siphoning.**

**Step 15:**

**You will now need to connect the solution tank line to the control valve. Attach the clear tubing provided from the solution tank to the connection fitting on the valve. First attach the connection fitting to the valve then attach the tubing to the valve. On the other end, attach the tubing to the solution tank compression fitting elbow.**



**Step 16:**  
**INITIAL POWER UP**

**1. Add 1 gallon of regular household bleach (approx. 5.25% strength) to the solution tank after moving it to the desired spot that is accessible for refill. Next add 14 more gallons of water to the solution tank. Make a mark on your solution tank for future reference when refilling. For larger Eliminators with the 35 gallon solution tank, add 2 gallons of bleach and 28 gallons of water.**

2. Set your bypass in bypass mode and **slowly** turn on the main water valve to your home until all pipes are pressurized. Now open the bypass valve **SLOWLY**. You do not want to be surprised by leaks. Let the filter tank fill completely, then open the bypass valves the rest of the way. **CAUTION If opened too rapidly or too far, carbon may be lost out of the tank into the valve or the plumbing. In the 1/4 open position, you should hear air slowly escaping from the valve drain line.**
3. Plug the power supply transformer into a socket that is not controlled by a switch or timer.
4. Program your water filter. **Be sure you set the control valve as a time clock delayed system.** Set the time of day, days to backwash, and backwash times. Here is where you will need to refer your owner's manual and special eliminator programming instructions that should have been emailed to you for your particular water filter settings and programming.
5. Once your filter is programmed advance your controller to manual backwash. The backwash process can take a while. Upon initial installation, some carbon "fines" could pass into your water supply to your home. Be sure to clear all lines after installation to minimize the carbon "fines" in your water.
6. Check for any leaks during this initial backwash.
8. Your filter should now be providing you with odor free water.