SpringWell

WATER FILTRATION SYSTEMS

Installation Instructions



WHOLE HOUSE FILTER &
SALT-FREE WATER SOFTENER

MODELS: CSF1, CSF4

You get the best of both worlds when you combine the benefits of our high-tech SpringWell environmentally-friendly salt-free water softener and our whole house water filter, which uses the highest quality coconut shell catalytic carbon that targets the contaminants that we find in our water supplies today!

CUSTOMER SERVICE IS AVAILABLE MON-FRI 9AM-6PM EST

800-589-5592

WWW.SPRINGWELLWATER.COM

Whole House Filter and Salt-Free Water Softener

Scan for Installation video

Scan for Installation video

Or click HERE

System Contents


Carbon Filter Tank (CF)


Conditioner Tank (FS)


Sediment Filter Housing


Tank Head for (CF)


Sediment Filter


Gasket and Lube


Spanner Wrench


Hose Bib Assembly


Mounting Bracket

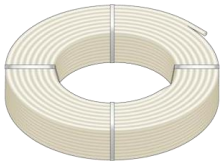

MNPT Fittings (x4)

System Compatibility


Corrugated Water Connectors


PVC


Copper


Pex


Bypass Valves (x2)
sold separately

These instructions will feature a combination of PVC and threaded water connectors. But, note that this system is compatible with multiple types of connections

System Configuration

Water Source From Outside Home



(1) The Carbon Filter Tank (CF) will remove chemicals such as chlorine



(2) The Sediment Filter will remove particulates



(3) The Future Soft Tank (FS) will neutralize any remaining hardness

Filtered and Softened Water Into Home

Whole House Filter and Salt-Free Water Softener

Product Specs



CF1	
Tank Width	9”
Tank Height	48” (52” with Head)
Flow Rate	9 GPM Service
Connection Size	1”
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
Sediment Filter Change/Replacement	Every 6-9 Months
Media Change/Replacement	Every 6 years or 1 Million Gallons



FS1	
Tank Width	6”
Tank Height	35” (39” with Head)
Flow Rate	12 GPM Service
Connection Size	1”
Max Pressure	75 PSI
Operating Temperatures	35 – 110 F



CF4	
Tank Width	10”
Tank Height	54” (58” with Head)
Flow Rate	11 GPM Service
Connection Size	1”
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
Sediment Filter Change/Replacement	Every 6-9 Months
Media Change/Replacement	Every 6 years or 1 Million Gallons



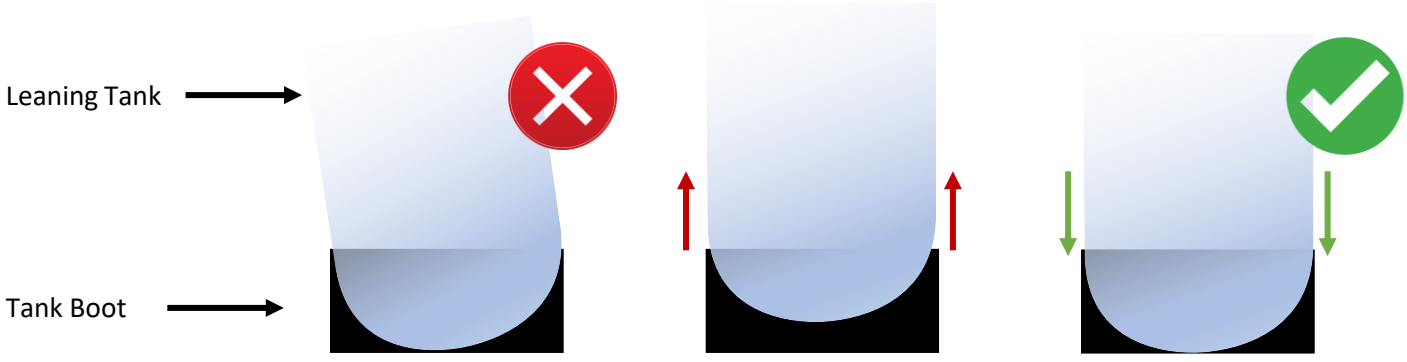
FS4	
Tank Width	9”
Tank Height	48” (52” with Head)
Flow Rate	15 GPM Service
Connection Size	1”
Max Pressure	75 PSI
Operating Temperatures	35 – 110 F

Whole House Filter and Salt-Free Water Softener

PLEASE READ INSTRUCTIONS FULLY PRIOR TO ATTEMPTING INSTALLATION. Be sure to follow all applicable plumbing codes. The system must be installed on a main water supply line

Caution: Do not install on well water unless you have spoken to a customer service representative first.

Level Tanks



If the tank is not perfectly straight, carefully lift the tank straight up a few inches and tap it on the ground until the tank stands vertically and fits snuggly into the tank boot.

Whole House Filter and Salt-Free Water Softener

Installing the Head on the CF (Carbon Filter) Tank

This step will require the materials listed below

Carbon Filter Tank





Tank Head



1) Unscrew the cap on top of the carbon filter tank.



2) Discard the cap as it is no longer required.



3) Locate the tank head and note the label discussing the necessary 48-hour pre-soak.



4) Align the opening on the bottom of the tank head with the pipe inside the tank.



5) Press the tank head down to allow the threads to catch.



6) Turn the tank head clockwise until it is fully tightened.



7) Insert a blunt tool into one of the connections on the head. A screwdriver handle will work.



8) Use your feet around the boot to add grip to the tank.



9) Grip the tank and use the screwdriver as leverage to fully tighten the head.



ONCE THE HEAD ATTACHES TO THE PIPE INSIDE THE TANK IT IS PERMANENT. Do not attempt to unscrew or remove the head from the tank or it will cause the components within the tank to separate causing damage and potentially cause resin to seep from the tank into your home plumbing.

Whole House Filter and Salt-Free Water Softener

IMPORTANT! The carbon media inside the filter system MUST soak in water for a minimum of 48 hours prior to installation

Carbon Soak Instructions (48 Hours Prior)

This step will require the materials listed below



Carbon Filter Tank (CF)



Conditioner Tank (FS)



Bypass Valve
sold separately



Hose Bib Assembly

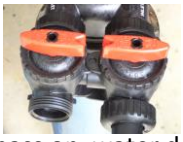


MNPT Fittings (x2)



Lawn Hose Connected to Faucet

Bypass Operation



Bypass on, water does not flow through tank



Bypass off, water flows through tank



10) Insert the bypass valves onto the tank head connections of both of of the tanks and press in place.

If no bypass, attach hose bib assembly directly into the inlet connection on tank head.



11) Fully tighten the fasteners on both valve connections securing the bypass valves.



12) Attach and tighten a MNPT Fitting onto the connections on each of the bypass valves on both tanks.



13) Use the hose bib to attach a lawn hose to the inlet on the first tank. Ensure the bypass is off to allow water flow through the tank.

If no bypass, connect your lawn hose to hose bib assembly on the inlet side.



14) Turn on the water to the hose halfway until water exits the tank. Turn off the water and disconnect the hose and adapter.



15) Switch the tank to bypass and store for 48 hours.

Repeat these steps with both the tanks. If no bypass, leave tank disconnect from home or hose for 48 hours and store.

Whole House Filter and Salt-Free Water Softener

IMPORTANT! The carbon media must be flushed on both tanks prior to install

Carbon / Media Flush

This step will require the materials listed below



Carbon Filter Tank (CF)



Conditioner Tank (FS)



Hose Bib Assembly



Lawn Hose Connected to Faucet

Tank Identification



The Carbon Filter (CF) tank identification on the tank head.



The Future Soft (FS) tank identification on the tank.

Bypass Operation



Bypass on, water does not flow through tank



Bypass off, water flows through tank



16) Start with the Carbon Filter (CF) Tank and connect the hose bib adapter and hose to the inlet side of the tank.
If no bypass, attach garden hose to the inlet side of the hose bib.



17) Turn off the tank bypass. Some water will escape the tank.



18) Run the water to flush the tank until the water runs clear. Approx. 3 to 5 min.
If no bypass, the water will flush through the inlet side of hose bib.



19) Relocate the hose bib adapter and hose to the outlet side of the tank.
If no bypass, connect directly to outlet side of hose bib.



20) Flush with water in the opposite direction until the water runs clear. Approx. 3-5 min.



21) Repeats steps 16 through 20 on both tanks.

Whole House Filter and Salt-Free Water Softener



Note: The neoprene covers that came with each tank will now be placed around each tank and zipped up.

Prepping the Sediment Filter

This step will require the materials listed below



Sediment Filter Housing



Sediment Filter



O-Ring w/Lube



22) Unscrew the lid from the sediment filter Housing.



23) The O-ring will now be laid into the groove around the top of the sediment filter Housing tank.



24) Squeeze lubricant onto the O-ring then spread it using your finger.



25) Flip the O-Ring over and lubricate the opposite side as well.



26) Insert the Sediment Filter into the sediment filter Housing.



27) Replace the lid and fully tighten it

Whole House Filter and Salt-Free Water Softener

Installing the Sediment Filter

This step will feature the materials listed below



Prepped sediment Filter Housing



Spanner Wrench



Mounting Bracket



Pliers



Drill with 3/16” drill bit



1-inch (3-inch long) PVC Nipples (x2)



Plumbers Tape



Note: Plumbers tape will need to be applied to all PVC threads during the installation. ***Please ensure when installing you leave enough room for both tanks and the sediment filter.***



28) Install a PVC nipple onto each the inlet and outlet of the Sediment filter housing. Fully tighten using pliers avoiding damage to the threads on the PVC nipples.



29) Identify the optimal area to mount the sediment filter. Ensure that it aligns to allow room for the carbon filter tank ahead of the sediment filter. Also note that the distance from the outlet of the sediment filter is close enough to the pre-plumb. Mark your holes for pre-drilling.



30) Use a 3/16” drill bit to pre-drill the holes for the sediment filter mounting bracket. Use 4 of the provided bolts and washers to secure the bracket to the wall using a 1/2” socket.



31) Before mounting the sediment filter, identify the inlet and outlet by using the markings on top. Be sure to orient it so the incoming water can be connected to the inlet.



32) Use the remaining 4 bolts to secure the sediment filter to the mounting bracket.

Whole House Filter and Salt-Free Water Softener

Installing a Shut Off Valve

IMPORTANT! Be sure to turn off the water main to your home before proceeding to the next steps!



1-Inch PVC Shut Off Valve*
for copper for PEX, use comparable shut off valves.



1-inch Corrugated Water Connector (x1)



1-inch (3-inch long) PVC Nipple



Wrench and Pliers



Plumbers Tape

***A shut off valve ahead of the system is recommended for easy maintenance.**



33) Expose the pre-plumb and prep to connect the system. Threaded adapters are used in this example.



34) 1” threaded adapters are featured in this guide and are installed on the incoming water supply with the threads towards the location of the carbon tank.



35) Point the threaded adapter for the opposite end of the pre-plumb towards sediment filter outlet connection.



NOTE: Plumbers tape will need to be applied to every thread when connecting all corrugated pipes.



36) It is suggested to connect a PVC shut off valve onto the threaded adapter from the incoming water supply. Ensure it is fully tightened.



37) Connect a PVC nipple to the other end of the PVC shut off valve. Ensure it is fully tightened.



38) Connect a corrugated pipe to the PVC nipple. Ensure it is fully tightened.

Whole House Filter and Salt-Free Water Softener

Installing the Tanks

This step will feature the materials listed below



Carbon Filter Tank (CF)



Conditioner Tank (FS)



Plumbers Tape



Wrench



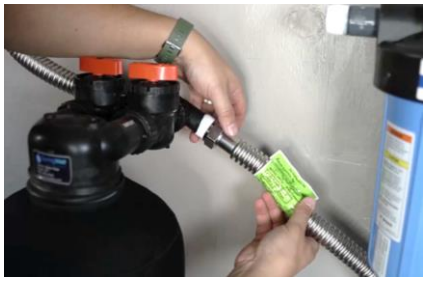
1-inch (24-inch Long) Corrugated Water Connectors (x3)



39) Apply plumbers' tape to the inlet and outlet connections on both the Carbon Filter (CF) tank and the Future Soft (FS) tank.



40) Connect the corrugated pipe from the shut off valve to the inlet on the Carbon filter (CF) tank. Ensure it is fully tightened.



41) Connect another corrugated pipe to the outlet side of the carbon filter tank. Ensure it is fully tightened.



42) Connect the other end of that corrugated pipe to the inlet side of the sediment filter. Ensure it is fully tightened.



43) Connect a third corrugated pipe to the outlet from the sediment filter. Ensure it is fully tightened.



44) Connect that corrugated pipe to the inlet on the Future Soft (FS) tank.



45) A final corrugated pipe will connect between the outlet on the Future Soft (FS) tank and the other end of the pre-plumb.

Whole House Filter and Salt-Free Water Softener

Testing the System



46) Before turning the water back on to the home use the provided spanner wrench to fully tighten the sediment filter housing.



47) While the water is still off, open a cold bathtub faucet all the way.



48) Ensure the shut off valve to the system is closed (1), and that the bypass valves on both tanks are set to bypass (2-3). Turn the water back onto the home and inspect the shut off valve for leaks.



49) If no leaks are detected, open the shut off valve an allow water to flow through the system. Check the connections for leaks.



50) If no leaks are detected, open the bypass valves on both tanks to allow water flow through them.
If no bypass, skip this step.



Note: If you see water seeping out from beneath the tank head on the Carbon Filter (CF), please proceed to the next page for the solution.



51) Allow water to run through the system for 5-10 minutes. It is normal to see a small amount of sediment during this time.



Congratulations, Your installation is complete.

Whole House Filter and Salt-Free Water Softener

Water Leak from Tank Head



Water leaking from the tank head collar indicates the head is either not tight enough, or that the O-ring became bunched.



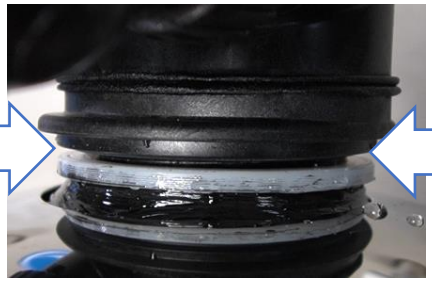
Turn the shut off valve to the off position.



Disconnect the carbon filter tank from the system



Slowly unthread the head from the tank approx. half a rotation.



You only need to expose a small gap between the tank collar and the tank head.



Fully re-tighten the head onto the tank. The O-ring will now be able to reseat.



Reconnect the tank to the system and proceed back to page 12 to test the system again.