



# SpringWell

WATER FILTRATION SYSTEMS

## Installation Instructions

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### Well Water Filter and Salt Based Water Softener

Model WSSS1, WSSS4

If you have a well and looking to remove iron, manganese, hydrogen sulfide as well as hard water minerals then this is the system for you. Combining our whole house well system with our salt-based water softener will give you clean healthy water as well as slippery soft water removing hard water minerals which prevents limescale and calcium build up on your plumbing and fixtures.



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



**800-589-5592**

[WWW.SPRINGWELLWATER.COM](http://WWW.SPRINGWELLWATER.COM)

# Well Water Filter and Salt Based Water Softener Setup and Installation

## System Contents



Well Water Filter Tank



Softener Tank



Brine Tank



50' Drain Line (x2)



MNPT Fittings (x4)



Electronic Head for Well Water Filter (Tank 1)



Electronic Head for Softener (Tank 2)



Power Supplies (x2)



Hose Clamps (x2)

## Recommended Supplies



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



1-inch (3-inch long) PVC Nipple



1 Roll Plumbers Tape



Bypass Valves (x2)



1-inch threaded connectors for pre-plumb (slip/threaded elbows shown)

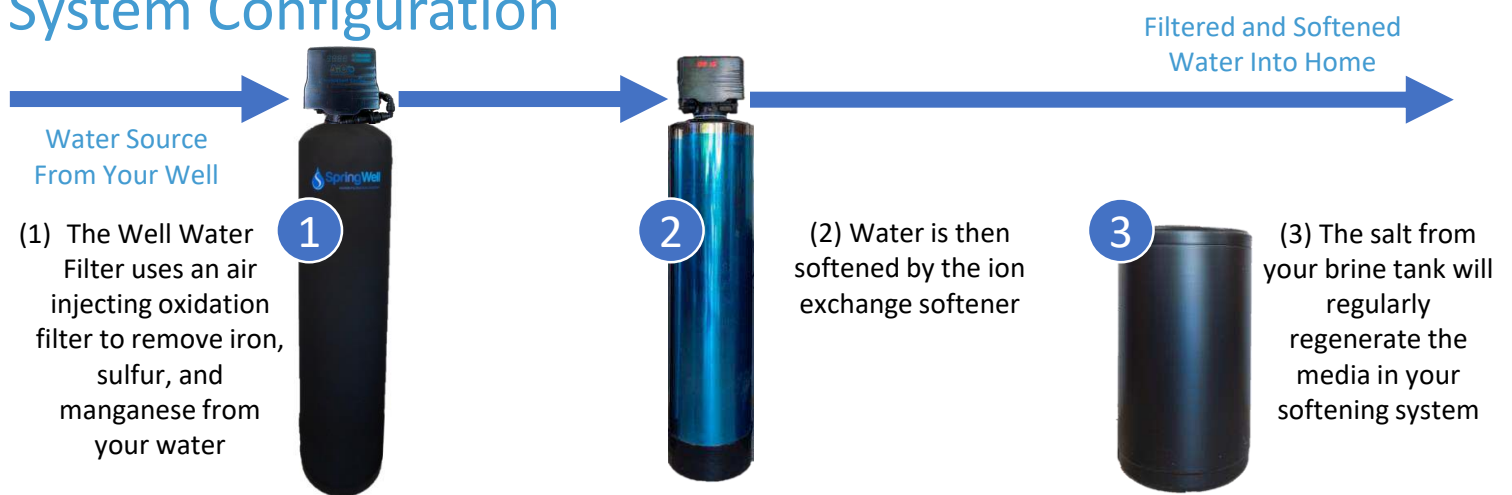


1-Inch PVC Shut Off Valve



Zip Ties

## System Configuration

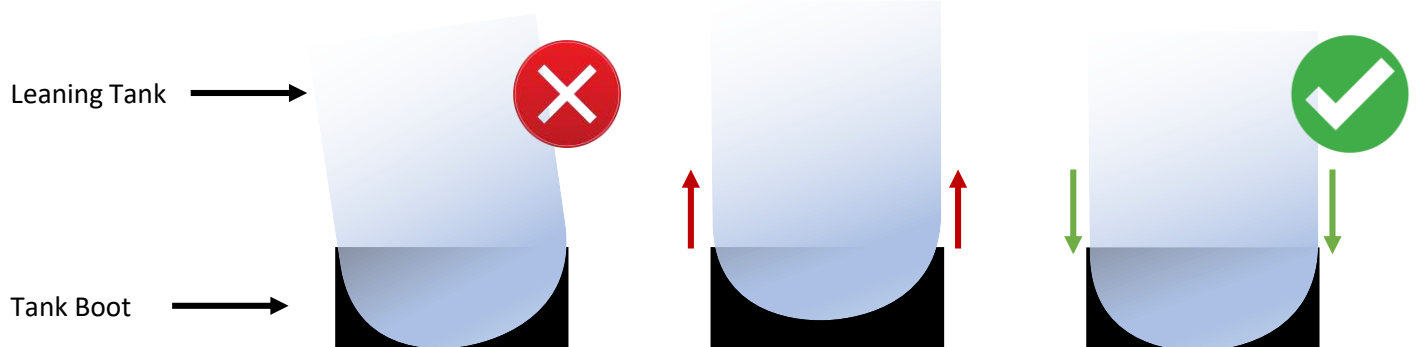


# Well Water Filter and Salt Based Water Softener



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

## 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 snugly into the tank boot.

# Well Water Filter and Salt Based Water Softener

## System Specifications



WS1	
Tank Width	10"
Tank Height	54" (64" with Head)
Flow Rate	12 GPM Service
Connection Size	1"
Backwash Rate	5 GPM
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
pH Range	6.5 - 10

WS4	
Tank Width	13"
Tank Height	54" (64" with Head)
Flow Rate	18 GPM Service
Connection Size	1"
Backwash Rate	7 GPM
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
pH Range	6.8 – 10



SS1	
Tank Width	9"
Tank Height	48" (57" with Head)
Flow Rate	11 GPM Service
Connection Size	3/4"
Backwash Rate	2 GPM
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
PH Range	6.5 – 10
Grain	32K
Brine Tank	18"(w) x 33"(h)

SS4	
Tank Width	10"
Tank Height	54" (63" with Head)
Flow Rate	13 GPM Service
Connection Size	3/4"
Backwash Rate	2.4 GPM
Operating Pressure	25-80 PSI
Operating Temperatures	36 – 120 F
PH Range	6.5 – 10
Grain	48K
Brine Tank	18"(w) x 33"(h)

# Well Water Filter and Salt Based Water Softener



Note: If you purchased a jacket, it can be zipped around the tank prior to or after the installation is completed.

## Installing the Well Water Filter Electronic Head

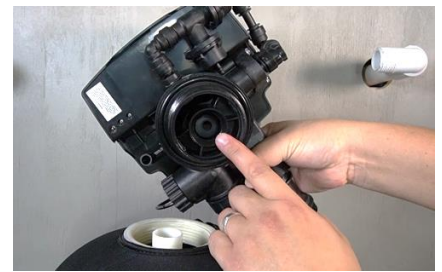
This step will require the materials listed below



1) Unscrew the cap on top of the well water filter tank.



2) There is a blue cap inside that also needs to be removed. Both caps can be discarded.



3) Locate the opening at the bottom of the well water filter electronic head.



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.

# Well Water Filter and Salt Based Water Softener

## Installing the Well Water Filter Electronic Head



7) Install a bypass valve\* onto the connections on the electronic head.



8) Insert the rubberized connections into the electronic head openings and press it in place.



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



10) Attach and tighten a MNPT Fitting onto each of the connections on the bypass valve.

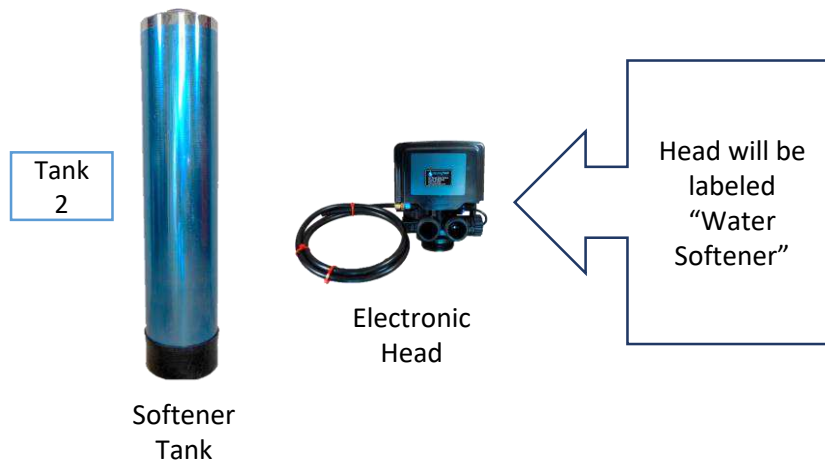


11) Apply plumbers' tape to both MNPT Fittings.

# Well Water Filter and Salt Based Water Softener

## Installing the Softener Electronic Head

This step will require the materials listed below



12) Unscrew the cap on top of the softener tank.



13) There is a blue cap inside that also needs to be removed. Both caps can be discarded.



14) Locate the opening at the bottom of the Softener electronic head.



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



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



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

# Well Water Filter and Salt Based Water Softener

## Installing the Softener Electronic Head



18) Install the bypass valve onto the connections on the electronic head.



19) Insert the rubberized connections into the electronic head openings and press it in place.



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



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



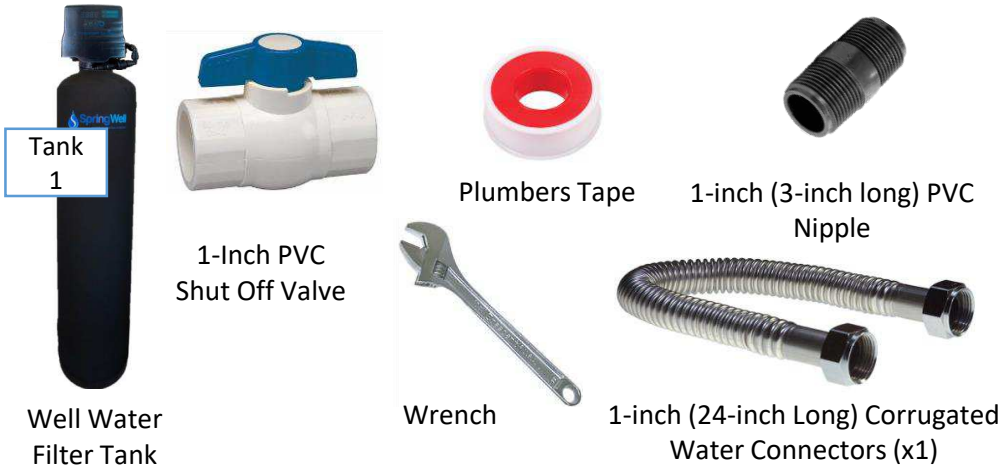
22) Apply plumbers' tape to both MNPT Fittings.



# Well Water Filter and Salt Based Water Softener

## Installing the Tanks - Part 1

This step will require the materials listed below



23) Turn off the water to the home and prep the pre-plumb. You will attach a 1-inch threaded adapter to each connection.



Note: All connections will require plumbers' tape to avoid leaks.



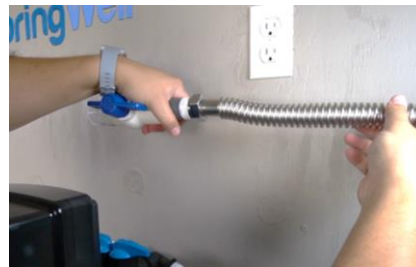
24) Install the shut off valve onto the incoming water supply on the pre-plumb.



25) Apply plumbers' tape to the threads on the PVC nipple then thread it into the other end of the shut off valve. Fully tighten it.



26) Position the well water tank next to incoming pre-plumb with its connections facing back



27) Connect a water connector to the PVC nipple coming out from the shut off valve.



28) Connected the corrugated pipe to the incoming side on the back of the well water filter. Ensure it is fully tightened.

# Well Water Filter and Salt Based Water Softener

## Installing the Drain Line (Well Water Filter)

This step will require the materials listed below



50' Drain Line



Hose Clamp



Zip Ties



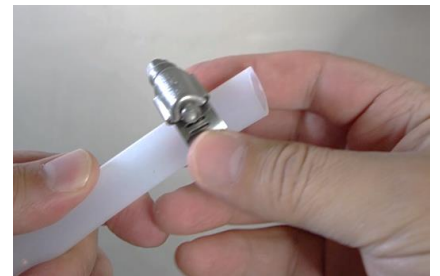
29) Locate the drain valve on the left side of the well water filter head. It is a compression connection.



30) Remove the blue lock tab securing the drain valve in place.



31) Pull the drain valve straight out.



32) Slide a hose clamp over an end of one of the provided drain lines.



33) Press the barbed connector on the valve onto the end of that drain line until it is fully seated.



34) Slide the hose clamp over the connection and begin to tighten it.



35) Prior to fully tightening, position the hose clamp to align as shown here. Now, fully tighten.

# Well Water Filter and Salt Based Water Softener

## Installing the Drain Line (Well Water Filter)



36) Insert the drain valve back into the tank head. Ensure the drain line isn't pinched.



37) Insert the blue tab to lock the drain valve back in position.



38) Thread the drain line towards your drain and cut away the excess leaving some slack.



**IMPORTANT!** Ensure the drain lines you installed are not pinched or kinked or it will impede the flow of water from the system.



39) To ensure the drain line doesn't come out from the drain a pair of zip ties are recommended. They can be inserted through two pairs of holes drilled high up in the drainpipe.



40) Pushing the zip ties inwards will create a loop.

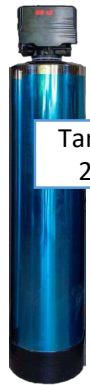


41) Insert the drain line into the zip tie loops and secure in place. The excess can then be trimmed off the zip ties.

# Well Water Filter and Salt Based Water Softener

## Installing the Tanks - Part 2

This step will require the materials listed below



Softener Tank



Wrench



Plumbers Tape



1-inch (24-inch Long) Corrugated Water Connectors (x1)



42) Connect a water connector to the outgoing side from the well water tank (already installed). Make sure the connection is fully tightened.



43) Position the softening tank next to the well water filter (already installed). Point the connections towards the back.



44) Connect the water connector leading from the outgoing side of the well water filter to the inlet on the softening tank. Be sure to fully tighten it.

# Well Water Filter and Salt Based Water Softener

## Installing the Drain Line (Softener)

This step will require the materials listed below



50' Drain Line



Hose  
Clamp



Zip Ties



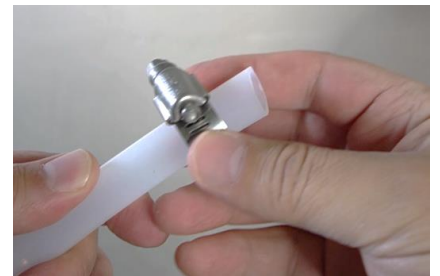
45) Locate the drain valve on the left side of the softener head. It is a compression connection.



46) Remove the blue lock tab securing the drain valve in place.



47) Pull the drain valve straight out.



48) Slide a hose clamp over one of the end of the provided drain lines.



49) Press the barbed connector on the valve onto the end of that drain line until it is fully seated.



50) Slide the hose clamp over the connection and begin to tighten it.



51) Prior to fully tightening, position the hose clamp to align as shown here. Now, fully tighten.

# Well Water Filter and Salt Based Water Softener

## Installing the Drain Line (Softener)



52) Insert the drain valve back into the tank head. Ensure the drain line isn't pinched.



53) Insert the blue tab to lock the drain valve back in position.



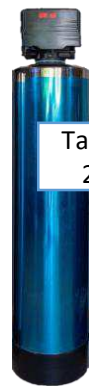
54) Thread the drain line towards your drain and cut away the excess leaving some slack.



55) Slide the drain line into the drain until a later step.

## Installing the Tanks - Part 3

This step will require the materials listed below



Tank  
2

Softener Tank  
(Already Installed)



Wrench



Plumbers Tape



1-inch (24-inch Long)  
Corrugated Water  
Connectors (x1)



56) Connect a water connector to other end of the pre-plumb. The side leading into the home. Make sure the connection is fully tightened.



57) Connect the other end of the water connector to the outgoing side from the softening tank (already installed). Be sure to fully tighten.

# Well Water Filter and Salt Based Water Softener

## Installing the Brine Tank

This step will require the materials listed below



Softener Tank  
(Already Installed)



Brine Tank



Drain Line



Zip Ties



58) Position the brine tank next to the softener tank with the drain valve pointing towards the softener.



59) Press the remaining drain line over the barbed valve leading out from the brine tank.



60) Trim the excess then temporarily place the drain line into the drain for a later step.



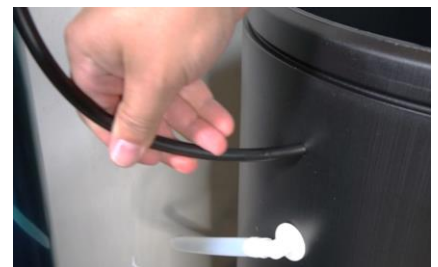
61) Remove the lid from the brine tank.



62) Remove the white cap from the brine well inside the brine tank.



63) Release the regen line from the softener head by removing the zip ties. Use care not to damage the line.



64) Insert the regen line into the brine tank through the opening above the drain line you installed earlier.

# Well Water Filter and Salt Based Water Softener

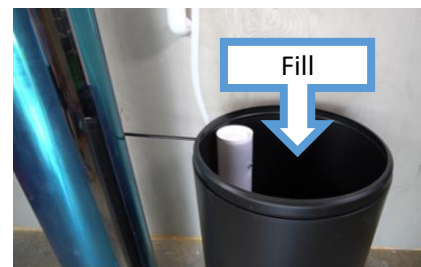
## Installing the Brine Tank



65) The regen line will be inserted to the connection just inside the brine well. Push the line all the way in. Once inserted it will be secure.



66) Replace the lid to the brine well.



67) The brine tank will need to be filled with 4 to 5 bags of salt pellets.



68) The lid to the brine tank can be replaced.

## Securing Drain Lines

This step will require the materials listed below



Zip Ties



69) Remove the brine tank and softener drain line from the drain.



70) Insert a pair zip ties through the drain and create two loops as shown here.



71) Insert the softener drain line through one loop and the brine tank drain line through the other loop.



72) Secure the lines with the zip ties and trip away the excess.



**IMPORTANT!** Ensure the drain lines you installed are not pinched or kinked or it will impede the flow of water from the system.



# Well Water Filter and Salt Based Water Softener

## Powering the Tank Heads

This step will require the materials listed below



Well Water Filter Tank  
(Already Installed)



Softener Tank  
(Already Installed)



Power  
Supplies  
(x2)



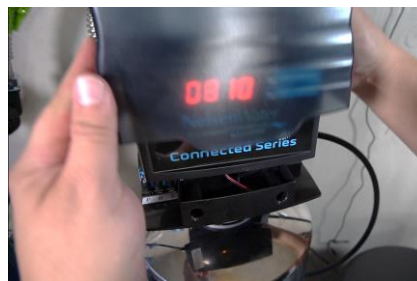
9v Battery  
(x2)



73) The power cord will be connected to the connection on the far left beneath the electronic tank head. Repeat for both heads.



74) The power adapters will then be plugged into a power supply that isn't controlled by a switch.



75) Lift off each cover on the electronic heads.



76) Locate the batter connection beneath the display. Connect a 9v battery then store it in the tray.



77) Replace the tank head cover. Install a battery on each tank head.



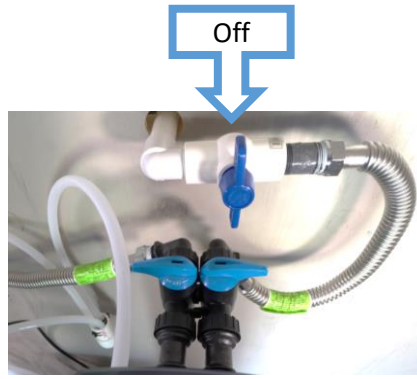
You are ready to test the system

# Well Water Filter and Salt Based Water Softener

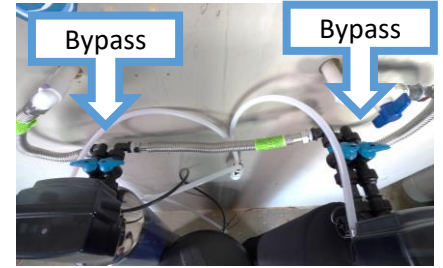
## Testing the System



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



79) Before turning on the water to the home ensure the shut off valve to the system is in the off position.



80) Ensure that the valves on both tanks are set to bypass.



81) Turn on the water to the home and inspect the shut off valve for any leaks.



82) If no leaks are detected, open the shut off valve to allow water flow through the tank bypasses.



83) If no leaks are detected from the bypasses, turn off the bypass to the well water filter and allow water to flow through it.



84) Turn off the bypass to the softener tank and allow water to flow through it as well.



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

# Well Water Filter and Salt Based Water Softener

## Setting Well Water Head Values

This step will require the materials listed below



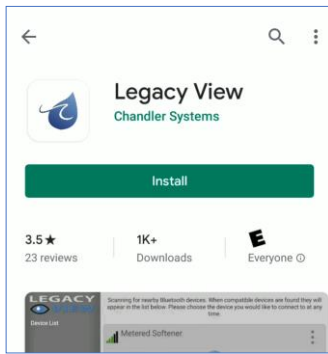
Well Water Filter Tank  
(Already Installed)



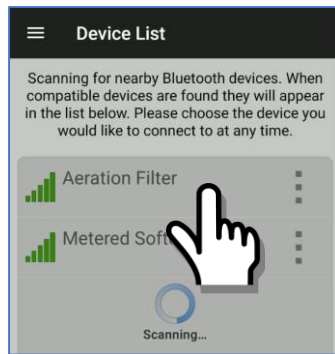
Mobile  
Device



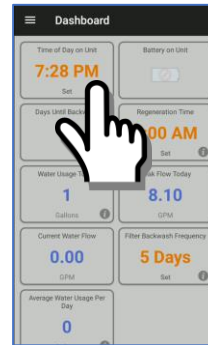
Note: The electronic tank heads must be powered and installed prior to setting the tank values.



86) Look up "SpringWell" in the app store and install it.



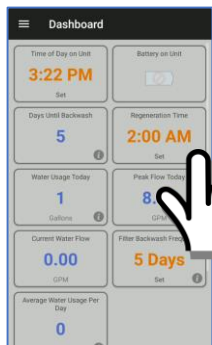
87) Open the app and select the Aeration Filter from the devices.



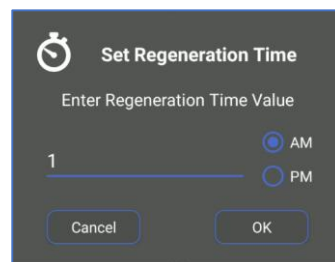
88) Tap "Time of Day on Unit" to change the time.



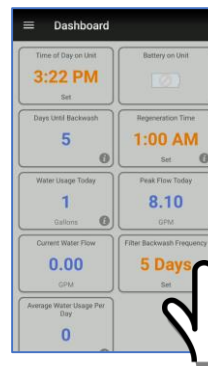
89) Select "OK" to set the time on to the same time as your mobile device.



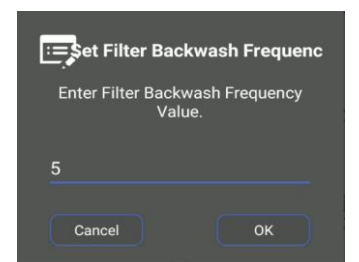
90) Both tanks cannot regen at the same time. To stagger the times, 1:00am is suggested for this tank.



91) Tap on the time tile then change the value to 1:00 am. Hit OK.



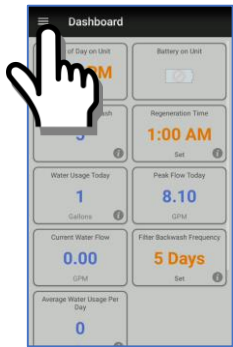
92) Tap "Filter Backwash Frequency."



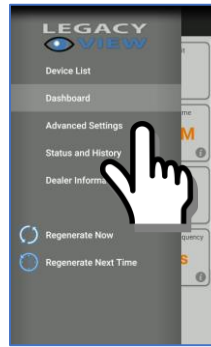
93) Change the frequency to 5 days. Hit OK.

# Well Water Filter and Salt Based Water Softener

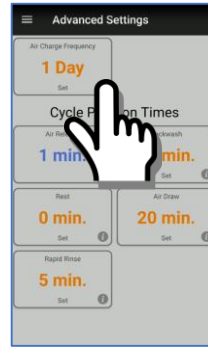
## Setting Well Water Filter Values



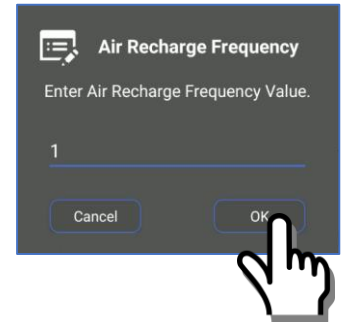
94) Select the menu icon in the upper left-hand corner.



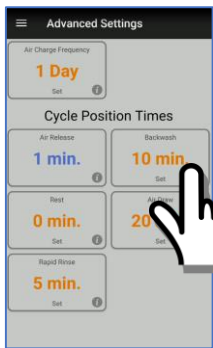
95) Select "Advanced Settings."



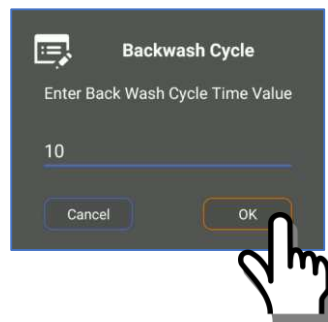
96) Tap "Air Charge Frequency."



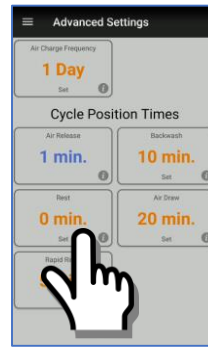
97) Change the value to 1 day.



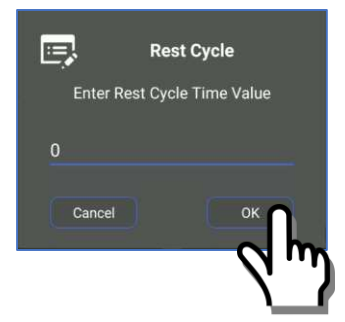
98) Tap "Backwash."



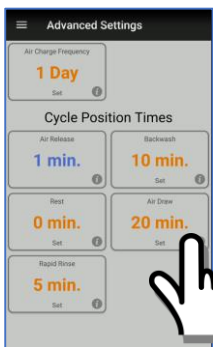
99) Change the value to 10 min.



100) Tap "Rest."



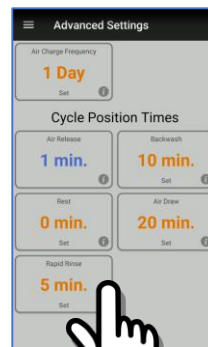
101) Set the value to 0 min.



102) Select "Air Draw."



103) Set the value to 20 min.



104) Select "Rapid Rinse."



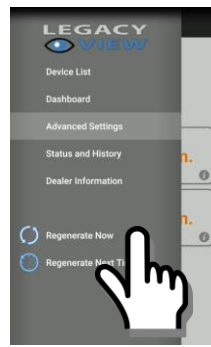
105) Set the value to 5 min.

# Well Water Filter and Salt Based Water Softener

## Setting Softener Values



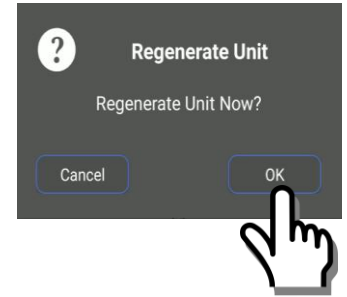
106) Tap the Menu Icon.



107) Select "Regenerate Now."



Note: The well water filter will run approx. 45 minutes. You will not be able to use water to the home during this time. Also, both tanks cannot regen at the same time. You must stagger the regenerations.



108) If you are ready, select OK on the regenerate confirmation

## Setting Softener Head Values

This step will require the materials listed below

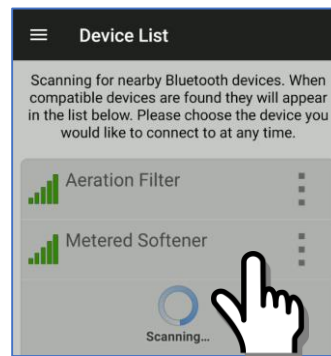


Tank 2

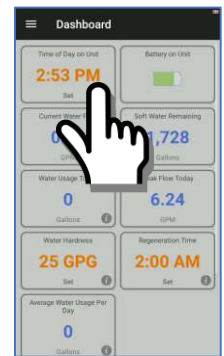
Softener Tank (Already Installed)



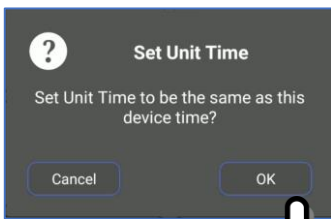
Mobile Device



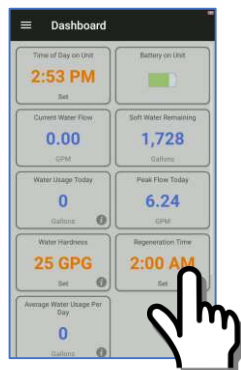
109) Open the app and select the Metered Softener from the devices.



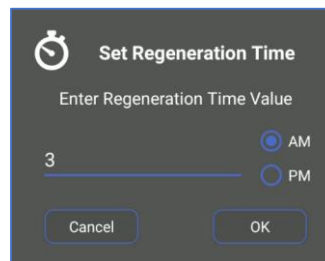
110) Tap "Time of Day on Unit" to change the time.



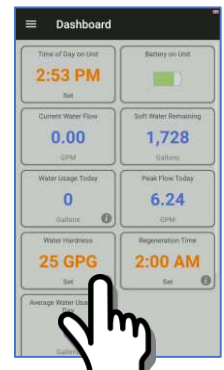
111) Select "OK" to set the time on to the same time as your mobile device.



112) To ensure the softener tank doesn't regen at the same time as the well water filter, adjust the regen time.



113) Tap on the time tile and set the time to 3:00 am.



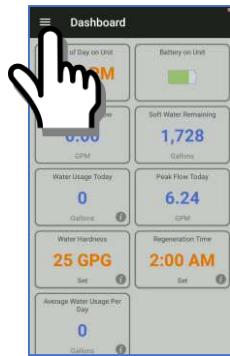
114) Tap "Water Hardness" to correct the value to your conditions.

# Well Water Filter and Salt Based Water Softener

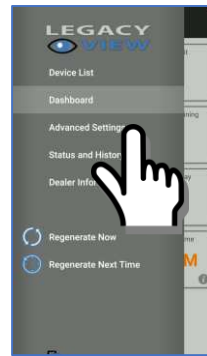
## Setting Softener Head Values



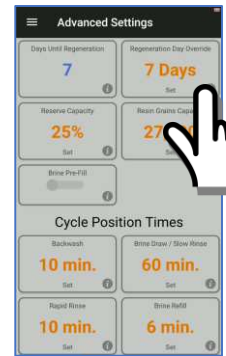
115) Enter the value from your hard water test.



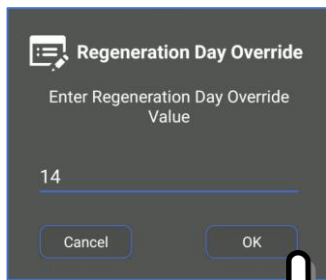
116) Select the menu icon in the upper left-hand corner.



117) Select "Advanced Settings."



118) Tap "Regeneration Day Override."



119) Change the value to 14 days.

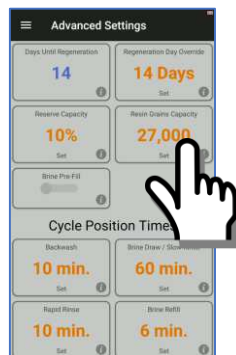


120) Tap "Reserve Capacity."

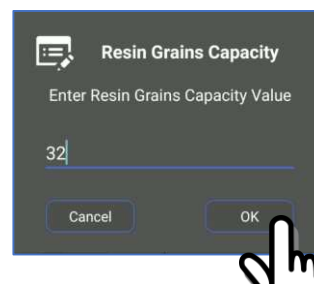


121) Change the value to 10%.

Next Steps  
122 to 126  
are for SS1  
Systems.  
Skip to step 127  
for SS4 systems.



122) Tap "Resin Grains Capacity."



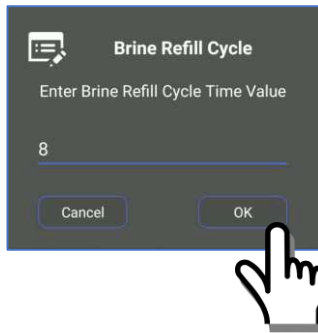
123) Change the value to 32 for 32,000.



124) Select "Brine Refill."

# Well Water Filter and Salt Based Water Softener

## Setting Softener Values

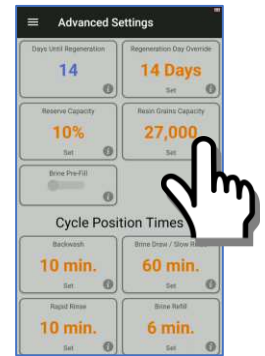


125) Change the value to 8 min.

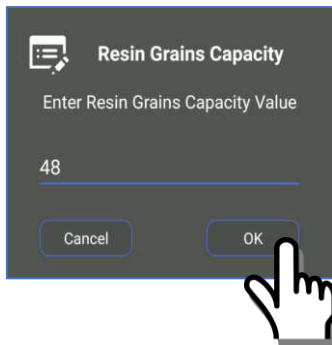


126) Recap of settings for SS1 system.

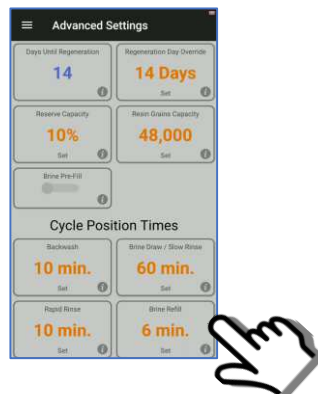
Next Steps 127 to 131 are for SS4 Systems. Refer to step 122 for SS1 systems.



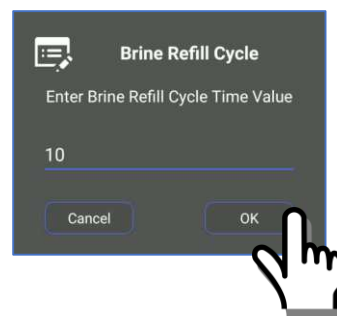
127) Tap "Resin Grains Capacity."



128) Enter 48 for 48,000.



129) Select "Brine Refill."

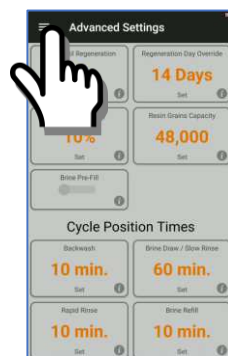


130) Set the value to 10 minutes.



131) Correct values for SS4 system.

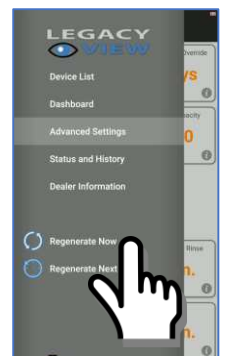
Steps from here apply to both versions



132) Tap the menu icon in the upper left-hand corner.



Note: The next step will force the softener system to regen. Remember that this tank and the well water filter cannot regen at the same time. Please wait for the other system to finish the regen. Also note, you will be unable to use water during this regen.



133) Once ready, select "Regenerate now," then OK. This system will regen for 2 hours.

**Once the regenerations on both tanks are completed, the system is ready to use.**