BETTER WATER
GENESIS
BETTER LIFE

WHOLE HOUSE CHLORINATION SYSTEM

OWNERS MANUAL



REVISION # 3
REVISION DATE 4/4/2022

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Performance Data and System Specifications

Description	Retention Tank
Max Flow Rate	14 GPM
Minimum Working Pressure	25 PSI
Maximum Working Pressure	100 PSI
Maximum Vacuum	5 inch/127 mm Hg
Operating Temperatures	36°F - 120°F
pH Range	6.5 - 11

Unpacking/Inspection

- Check the entire shipment for possible damage that may occur in transit.
- Check all items received against the parts list.

Safety Guide

- Check and comply with all state and local codes which must be followed.
- Use care when handling and installing the system; do not drop, drag or set on sharp protrusions.

Proper Installation

- Do not install where the system will be exposed to direct sunlight, weather or freezing.
- Use only lead-free solder/flux for all connections as required by state and federal codes.
- Install on the main water service line after the pressure tank and/or booster pump. (Do not install in conjunction with a hydro-pneumatic system.)
- Install the system before the water heater, never run hot water through the system.
- Install as close as possible to a drain.
- Additional fittings may be needed to adapt to existing plumbing.

⚠ WARNING:

If this or any other system is installed in a metal (conductive) plumbing system, i.e. copper or galvanized metal, the plastic components of the system will interrupt the continuity of the plumbing system. As a result any errant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Older homes may have been built in accordance with building codes from decades ago, some of which actually encouraged the grounding of electrical appliances through the plumbing system. Consequently, the installation of a bypass consisting of the same material as the existing plumbing, or a grounded "jumper wire" bridging the equipment and re-establishing the contiguous conductive nature of the plumbing system must be installed prior to your systems use.

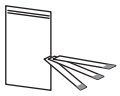
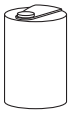
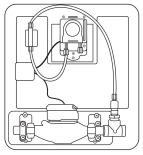
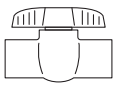
⚠ CAUTION:

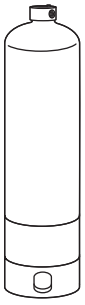
When adding a filtration/softening system to homes/buildings supplied by well water, the system should be installed following the pressure tank. **DO NOT USE this system for pneumatic or hydro pneumatic applications. If you are using a booster pump, then install this system following the booster pump.** If you have questions, please contact customer service.

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Genesis Whole House Chlorination System Parts List

Table 1: Parts List

Part	Description	Qty.
	**Chlorine Test Strips**	1
	**Solution Tank**	1
	**Feed Panel**	1
	**Retention Tank Purge Valve**	1

Part	Description	Qty.
	**Extension Tube**	1
	**Retention Tank**	1
	**Backwashing Carbon Filter**	1

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System Installation Diagram

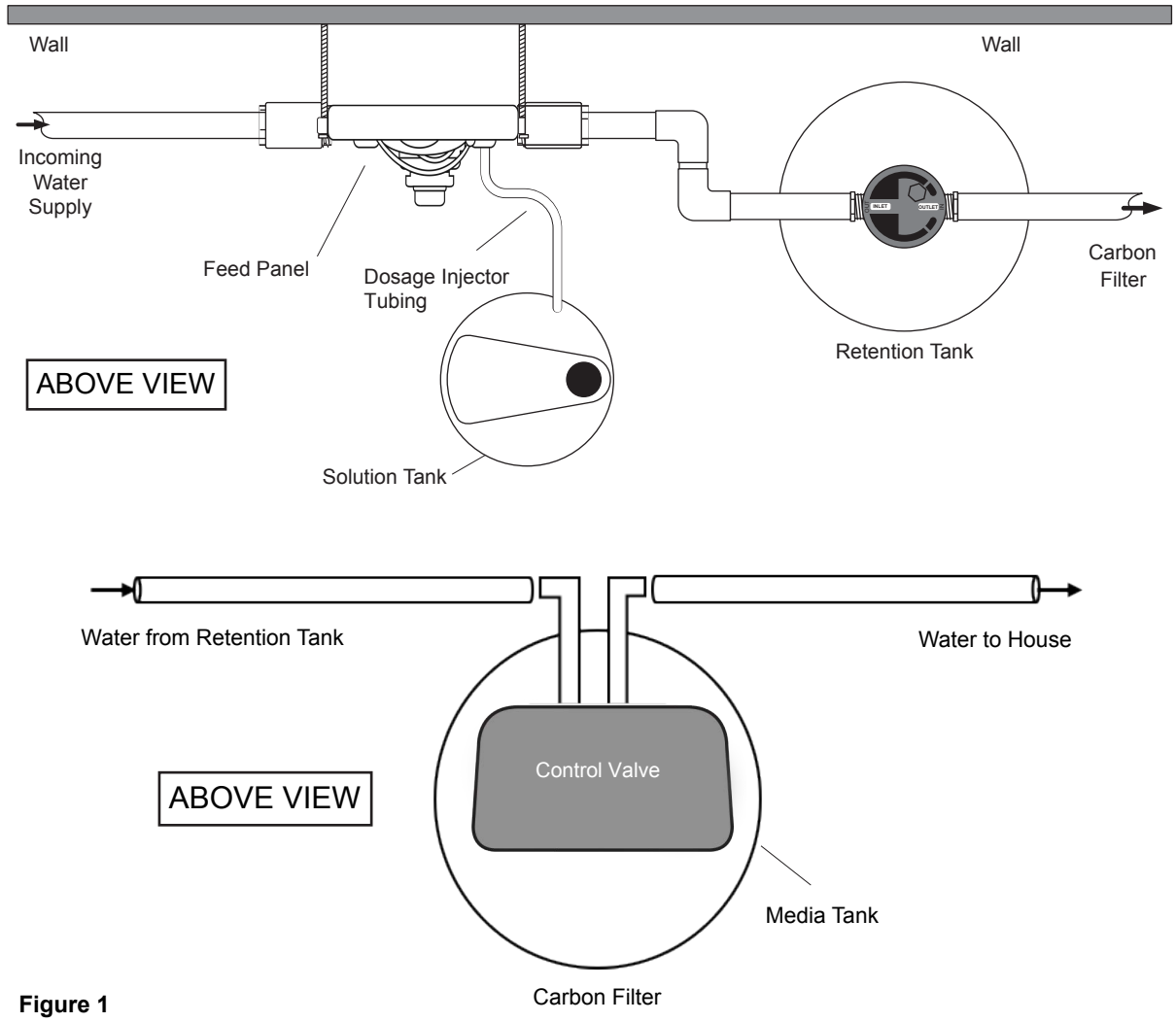


Figure 1

Feed Panel

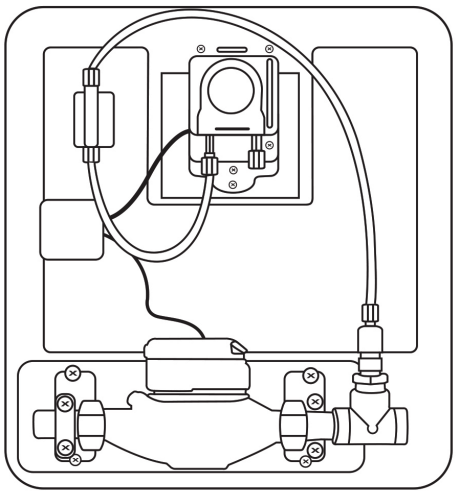


Figure 2

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Installation

Chlorine Injector Pump and Solution Tank Installation

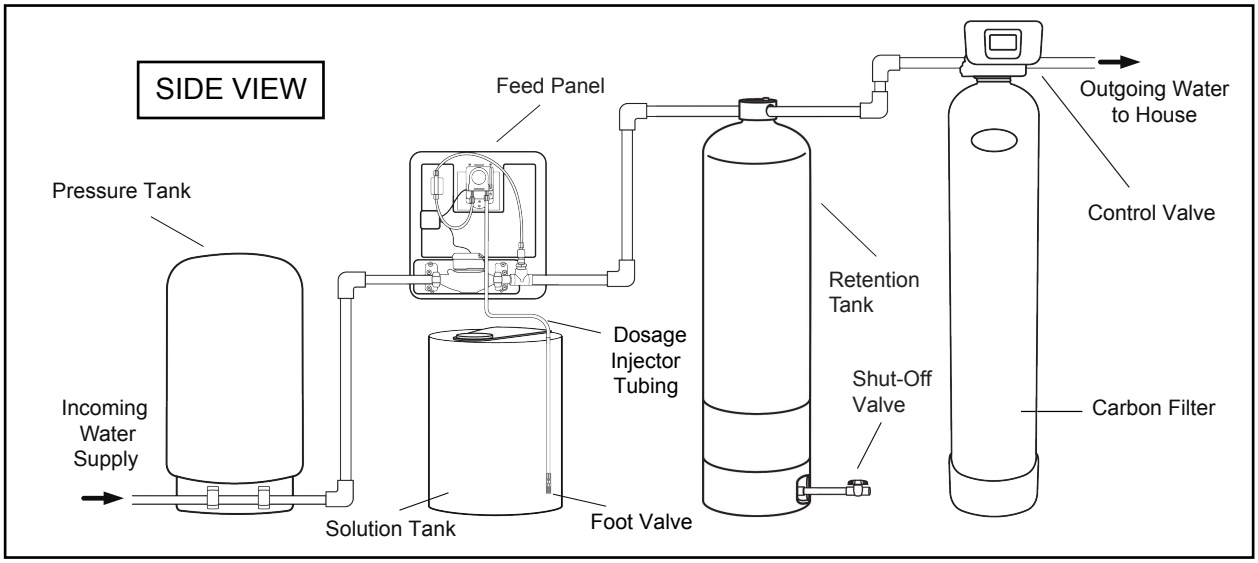


Figure 3

Chlorine Injector Pump Installation

Turn off water supply before any installation steps are performed.

1. Install the feed panel on the wall with the mounting bracket in line with the in and out connections of the current water line. All plumbing lines used between the water powered dosing injector and the inlet of the carbon filter must be of non-corrosive material such as PVC, CPVC or PEX. Check with your local plumbing code.
2. Attach the flexible tubing to the feed panel by unscrewing the suction hose nut (Figure 2). Slide the nut over the flexible tubing and attach the tubing to the suction hose nipple. Screw the suction hose nut back on and tighten. Check that the flexible hose is properly installed and not loose. Attach the other end of the flexible tubing with the compression connection to the pump tubing on the solution tank. Unscrew the compression nut and feed the flexible tube through the nut and onto the line connector, seat fully. Screw the compression nut back on and tighten. Unscrew the other compression nut and place it around the pump tubing that passes through the solution tank. Insert the pump tubing into the line connector, seat fully. Screw the compression nut back on and tighten.
3. Fill the solution tank with water and bleach, see the chart on page 10 for concentration mixture.

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Retention Tank Installation

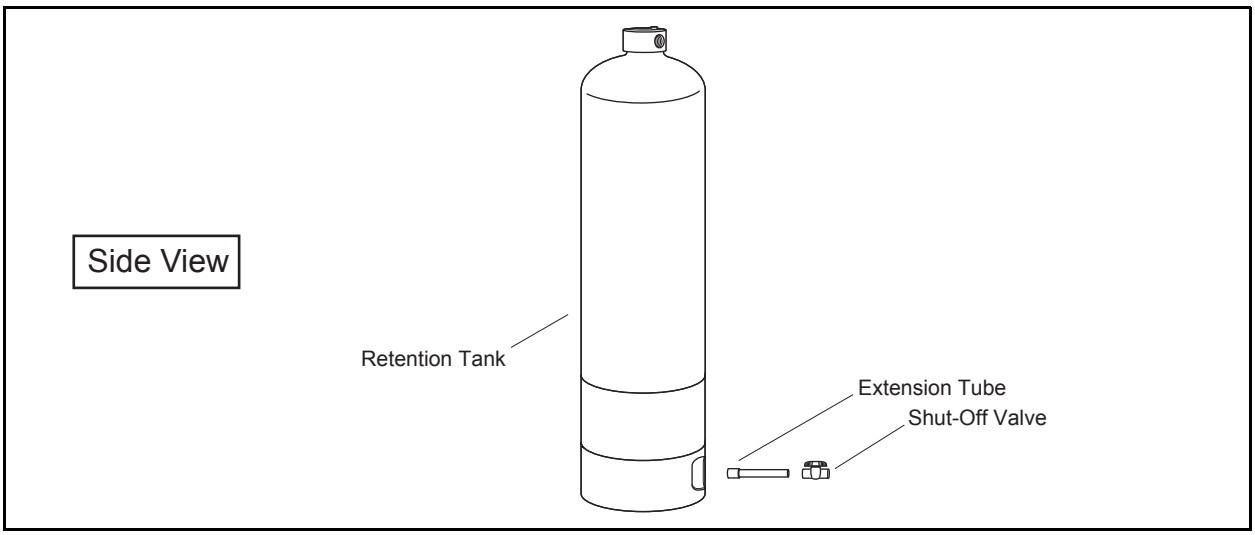


Figure 4

1. Install the extension tube to the 90 degree fitting on the bottom of the retention tank.
2. Connect the extension tube to the shut-off valve.

Optional: Connect the shut-off valve to an outgoing drain line.

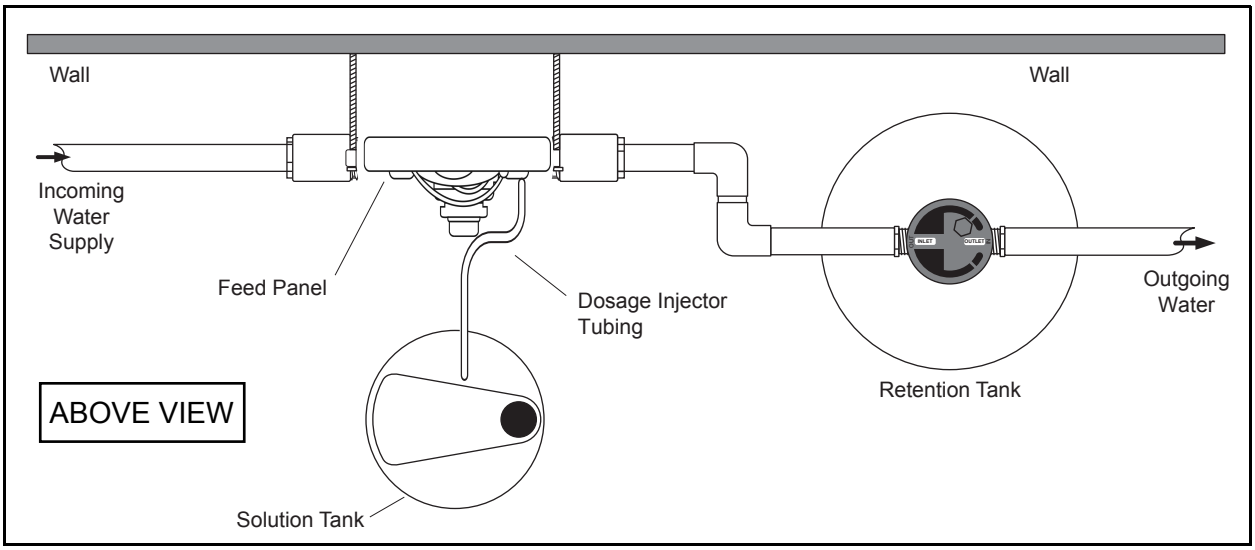


Figure 5

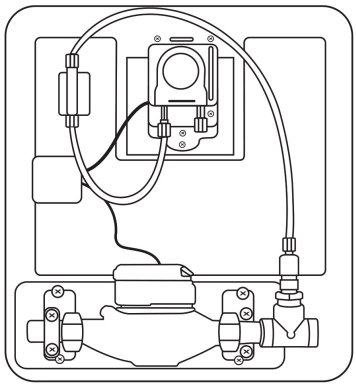
3. Connect the water line outflow from the water powered dosage injector to the inlet side of the retention tank (as seen in Figure 1). Connect the outlet side of the retention tank to the carbon filter if applicable. (See carbon filter manual for installation).
4. Slowly turn on the main water supply and check for leaks.

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Complete the Installation

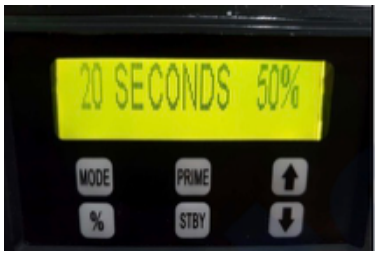
1. Turn on the main water supply.
2. Check for leaks.

Feed Panel



Chemical Injection Pump Start-up Instructions

1. Plug the chemical pump power cord into a continuously energized 110v outlet. The chemical pump should be set when the unit is shipped. It should be set to "20 SECONDS" and the percentage should be set on 50%.



2. If changes need to be made, the pump must be unlocked. If the pump is locked, push and hold the mode and the percentage "%" buttons at the same time and hold them for 3-5 seconds. The pump locked sentence will disappear. If "STANDBY" is on the screen, push and hold the "MODE" and "STBY" buttons and "STANDBY" will disappear.
3. To change the "mode" to "20 SECONDS", hold the mode button while using the up or down arrows to change the setting.
4. To change the percentage, press and hold the "%" button while using the up or down arrows to change the percentage to the desired rate. The pump is now programmed.
5. Once the pump is programmed, add water bleach (based on the chart below) in the chemical tank. Now push and hold the "PRIME" button until the pump pulls the solution from the container up to the pump and on to the injector. The level can be seen in the tubing as the pump becomes primed. Once it is primed, the pump is ready to use, The pump will operate during the startup process. If the pump is not working, see below.

NOTE: If the pump is showing "STANDBY", hold the "MODE" button and push the "STBY" button to take the pump out of the standby mode. The display will not show "STANDBY" if it is in normal operation. BE SURE to check that the pump is not in the "STANDBY" mode. If the pump is left in "STANDBY", it will not operate during regeneration as intended. If the pump is "LOCKED", it will need to be unlocked to make changes. If the valve is "LOCKED", press and hold the "MODE" and "%" buttons at the same time for 3-5 seconds to unlock.

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Test the Chlorine Level

1. Place the carbon filter and water softener into bypass if existing.
2. Turn on the nearest cold water faucet and let it run for 30 minutes.
3. Plug in panel to power and set pump to 20 seconds at 50%.
4. Check the pump and ensure it is operating. The injector will pulsate as it receives a pulse from the meter, it will not run when the water is off.
5. Test the water with a chlorine strip after it has run for 30 minutes. The ideal reading for chlorine is 1.8ppm-2.0ppm. (If there is no chlorine reading ensure the carbon filter and water softener are in bypass, check that the system is installed correctly, all lines are clear and not kinked).
6. Depending on the test results use the percentage setting to adjust the chlorine feed higher or lower based on the results.
7. Repeat steps 1, 2 and 3 to retest the water.
8. Continue the process until the 1.8ppm-2.0ppm reading is acquired.

Solution Tank Bleach and Water Ratio Chart

Concentration of Bleach (% Sodium Hypochlorite)	Ounces of Bleach	Gallons of Water
3.00%	256	13
5.25%	100	13
6.00%	128	14
8.25%	80	14

Maintenance

Injection Pump:

1. Change pump tubing annually
   - Pump tubes are available at DiscountWaterSoftener.com

Solution Tank Refill — Bleach & Water

1. Check the level of the solution tank twice per month. Do not let the liquid in the tank fall below ¼ full.
2. Fill the solution tank with bleach and treated water as needed. (Water that has gone through your filtration system).

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Warranty

Discount Water Softeners will provide for replacement of all parts shown to be defective in material or workmanship during a period of twelve months from the date of purchase by the original purchaser. To obtain warranty replacement of a part, the unit must be returned with original proof of purchase receipt to Discount Water Softeners and thereafter recognized as defective after examination by the technical services of the aforementioned company. The unit must be sent to Discount Water Softeners prepaid, but will be returned free of charge if found to be covered by the warranty and repairs are made.

This warranty only covers circumstances where the part has failed due to defects caused by the manufacturing process. This warranty is invalid if the defects are found to be due to the product's misuse, inappropriate use of tools, lack of maintenance or defective installation or environmental accidents or corrosion by foreign bodies and liquids found within or in proximity to the unit. The seals and 'o' rings are not covered under this warranty, nor is damage to the unit caused by water impurities including sand. A filter (40 microns or less) can be used in front of the system to help prevent system issues. The aforementioned company declines any responsibility if the unit is used under conditions outside of its operating tolerance as indicated herein.

Please reference the feed panel manual for warranty information on that product.

Contact Information

Thank you for choosing Discount Water Softener water treatment system.
Please contact us with questions.

Discount Water Softeners, INC.
11245 Giordano Ct.
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