Owner’s Manual
Whole House Chlorination System
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Performance Data and System Specifications

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

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.
# Genesis Water Powered Dosage Injector System

## Parts List

Table 1: Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine Test Strips</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>15 Gallon Solution Tank</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Dosage Injector Tubing / Foot Valve</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Dosage Injector</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut-Off Valve: 201-305 Legend PVC Compact Ball Valve</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Extension Tube</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Retention Tank</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
System Installation Diagram

Figure 1

- **Incoming Water Supply**
- **Solution Tank**
- **Retention Tank**
- **Dosage Injector Tubing**
- **Dosage Injector**
- **Wall**
- **IN**
- **OUT**

Figure 2

- **Water from Retention Tank**
- **Water to House**
- **Control Valve**
- **Media Tank**
- **Carbon Filter**

Figure 3

- **Bypass Handle** - Allows you to bypass the dosing injector.
- **Flow Direction Arrow** - Indicates the proper flow pattern depending on how the unit is install.
- **Dosage Adjustment** - Allows you to increase or decrease the amount of solution injected per gallon of flow.
- **Dosage Lock Nut** - Locks and unlocks the Dosage Adjustment for increasing and decreasing solution.
- **Suction Hose Nut** - Compression nut the secures the injector tubing to the injector.
Installation

Chlorine Injector Pump and Solution Tank Installation

Figure 4

Chlorine Injector Pump Installation

Turn off water supply before any installation steps are performed.

1. Install the Water Powered Dosage Injector on the wall with the mounting bracket in line with the in and out connections of the current water line. Plumb the Water Powered Injector into the water line. Note: Water Powered Injector must be installed after a Pre-Filter (if present) and before all filtration and softener systems. 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 Water Powered Dosage Injector by unscrewing the Suction Hose Nut (Figure 3). 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 is sticking out of 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 9 for concentration mixture.
Retention Tank Installation

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.

3. Connect the water line outflow from the Water Powered Dosage Injector to the Inlet side of the Retention Tank (as seen in Figure 2). 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.
Complete the Installation

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

![Diagram of the system components]

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. Check the Water Powered Injector and ensure it is operating. The injector will pulsate as it runs, it will not run when the water is off.
4. Test the water with a chlorine strip after it has run for 30 minutes. The ideal reading for chlorine is 2.6ppm. (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).
5. Depending on the test results use the Dosage Adjustment to increase/decrease the dosage. (The system is preset at .5) Incremental adjustments are made by unlocking the adjustor and turning the Dosage Adjustment to the right 2 full turns to increase and to the left 2 full turns to decrease. Relock the adjustor when adjustment is completed.
6. Repeat steps 1, 2 and 3 to retest the water.
7. Continue the process until the 2.6 ppm reading is acquired.

Solution Tank Bleach and Water Ratio Chart

<table>
<thead>
<tr>
<th>Concentration of Bleach (% Sodium Hypochlorite)</th>
<th>Ounces of Bleach</th>
<th>Gallons of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00%</td>
<td>79</td>
<td>14</td>
</tr>
<tr>
<td>5.25%</td>
<td>46</td>
<td>14</td>
</tr>
<tr>
<td>6.00%</td>
<td>40</td>
<td>14</td>
</tr>
<tr>
<td>8.25%</td>
<td>30</td>
<td>14</td>
</tr>
</tbody>
</table>
Maintenance

Water Powered Injector:

1. Change Injector Seal Kit Annually (3 O-Rings and Check Valve)
   • Kits are available at DiscountWaterSofteners.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 $\frac{1}{4}$ full.
2. Fill the Solution Tank with bleach and treated water as needed. (Water that has gone through your filtration system).
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 such as sand. A filter (80 microns or less) must be used in front of the unit for the warranty to be valid. The aforementioned company declines any responsibility if the unit is used under conditions outside of its operating tolerance as indicated herein.

Please reference the Carbon Filter manual for warranty information on that product.