

Your New Well System

Complete Chlorination System for Well Water

By

Glass Water Systems

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Well System

1. You have purchased a new well system. We will go over the components of each part in the next few pages. We will also cover the following:
 1. Chemicals, Supplies and Regenerates
 2. Components
 3. Testing
 4. Priming Pump
 5. Maintenance
 6. Trouble-shooting
 7. Shocking your home

Standard Chlorination Well Systems



Two Control Valve Choices



**Fleck 2510
Light Commercial
Timer**



**Fleck 5600
Timer**

Components

- #1 15 or 35 Gallon Solution Tank



We use 35 and 15 gallon clear and blue solution Tanks. This is where we mix our chlorine solution
You should use a mixture of 2 gallons of bleach or chlorine
With the remainder of water in 35 gallon tanks
Use 1 gallon and the remainder water with 15 gallon tanks

- #2 Chlorinator Pump & Flow-switch

LMI Unidose



Stenner Pump



Chemtec/Pulsafeeder



Flow-Switch-Grid



We use three different chlorinators
That will be turned on by either a
Flow switch or pressure switch.
LMI/Chemtec/Pulsafeder
a diaphragm pump that has to
Be manually primed if you run the solution
Tank out.
Stenner is a self priming pump

Components (Cont.)

- #3 Retention Tank



We Use Three Kinds of Retention Tanks

1. Flexcon-Has Two Side Ports
2. Well-Mate-Has Quick Disconnect fittings made by Fleck (Red Clips)
3. Clack-Show in the picture and has the inlet and outlet coming out of the top.

Retention tanks are used to
Mix chlorine with the water
To disinfect any harmful bacteria,
Iron bacteria, iron, hydrogen sulfide,
Or light tannins. This tank needs to be
Sized to fit your water use. Most common
Tank is 80 gallons

- #4 Multimedia Filter (Optional for Sediment)

Tank Sizes: 9x48 1 cf, 10x44 1.25 cf, 10x54 1.5 cf 12x48 2 cf



5600 Fleck



2510 Fleck



Clack Filter



7000 Fleck

Sediment filters are used to remove sediment from the Well. This may be either sand, dirt, some color or mud. We use the Following materials: Micro-Z, Chemsorb, or a Multi-Media Bed.
This is optional since most wells do not have this

Components (Cont.)

Tank Sizes: 9x48 1 cf, 10x44 1.25 cf, 10x54 1.5 cf 12x48 2 cf

- **#5 Carbon Filter**



5600 Fleck



2510 Fleck



Clack Filter



7000 Fleck

- **#6 Water Softener**

Tank Sizes: 9x48 1 cf, 10x44 1.25 cf, 10x54 1.5 cf 12x48 2 cf



Clack Softener 5600 Fleck



2510 Fleck



7000 Fleck

The carbon Filter is for removing Residual iron and hydrogen sulfide. In addition, it removes chlorine. It is Very important to make sure that this is Working properly. If you smell chlorine either Test the water after the carbon filter (positive test) Regenerate carbon filter and retest. Should it persist Change the carbon:

Carbon kit link:

<http://www.glasswatersystems.com/camerekit.html>

Video link:

<http://www.youtube.com/watch?v=QCQstRzh6VI>

Water Softener is used to remove the hardness Elements that damage fixtures and appliances Hardness is usually calcium and magnesium. It Produces a white film and is difficult to get rid of With cleaners. Positive side affects of water softeners:

1. Clothes are cleaner and last longer
2. Soap last longer and you consume less
3. Hair and skin is healthier
4. Dishes are cleaner
5. No spotting on cars and Glass Showers

Components (Cont.)

- #7 Reverse Osmosis (Optional)

Nelsen 5 Stage RO



Micronline 4 Stage RO



Watts 5 Stage RO



We recommend Reverse Osmosis
For drinking water and as a backup
For your water quality. These are
Excellent devices and will give you
Bottled water quality at your sink and/or
Refrigerator. We recommend three types and filters should be changed annually

Chemicals, Supplies, and Regenerates

- Chemicals- Clorox Bleach or Chlorine from Pool Supply House



- Supplies- Chlorine test kit and hardness test kit



Chlorine Test Kit
For testing chlorine levels



Soft Water Test Kit
For testing soft water
Positive/Negative



Hardness Test Kit
Tells How hard water
Is exactly



TDS Meter
For testing RO



Bacteria Test Kit

Chlorine Test Kit Link:

<http://www.glasswatersystems.com/3watekichbra.html>

Soft Water Test Kit Link:

<http://www.glasswatersystems.com/soft-water-test-set.html>

Hardness Test Kit Advanced Link:

<http://www.glasswatersystems.com/hac-hardness-test-kit.html>

TDS Meter for testing Reverse Osmosis Water:

<http://www.glasswatersystems.com/heemang-electronic-pocket-tds-meter.html>

Bacteria Test Link:

<http://www.glasswatersystems.com/purtest-bacteria-test.html>

- Regenerates – Salt – Solar Salt (Morton)



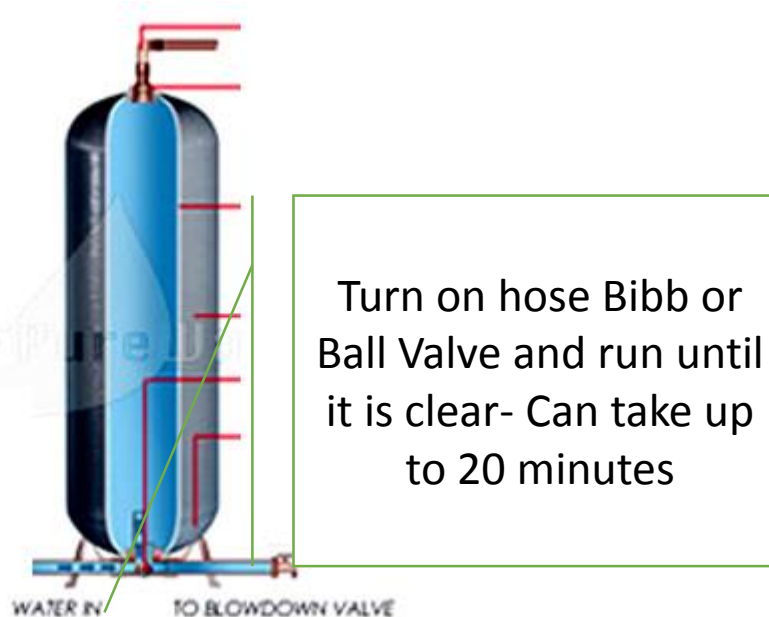
Testing

- Testing the chlorine level
 - You need to check the chlorine level when you start getting odor. Use the chlorine test kit shown in the previous pages to test at the hose Bibb after the retention tank
 - You need to have 3 ppm of chlorine for the unit to work efficiently
- Testing the chlorine level after the carbon filter:
 - You will use the same chlorine test kit
 - You should read 0 ppm of chlorine
- Testing the hardness
 - You can use either the soft water test kit or the Hardness test kit. You can test anywhere in the home.
 - You should read 0 grains or the soft water test kit should show suds.

Maintenance

- Weekly / Monthly Maintenance

- Put Chlorine in solution tank when low ($\frac{1}{8}$ to $\frac{1}{4}$) 2 Gallon then water 35 gallon solution tank - 1 gallon then water 15 gallon solution tank
- Salt- Fill salt tank if necessary
- Blow down retention tank
 - Plug Chlorinator into wall directly (unplug from pressure switch or flow-switch) . Make sure chlorinator is pumping. Leave water on and attach a hose or pipe and turn hose Bibb or ball valve on and run water until it is clear this can take up to 20 minutes



Maintenance (Cont.)

- Annual Maintenance
 - Clean or replace injection points on your chlorinator – consult you manual
 - Follow section 6.2 page 20 Manual Link: <http://ep.yimg.com/ty/cdn/yhst-48483384951716/unidosemanual.pdf>
 - Replace the stenner tube and duck bills-Consult your manual
 - Stenner tubes Link: <http://www.glasswatersystems.com/stenner-2-tube-assembly-2-pa22.html>
 - Stenner duck bills Link: <http://www.glasswatersystems.com/stenner-duck-bill-check-valve.html>
 - Stenner Manual Link: <http://www.glasswatersystems.com/stenner-duck-bill-check-valve.html>
 - Replace Chemtech KOP Kit and injector
 - Chemtech KOP Kit Link: <http://www.glasswatersystems.com/chprpekopvch.html>
 - Chemtech Injector Link: <http://www.glasswatersystems.com/chtebachva.html>
 - Chemtech Manual Link: <http://ep.yimg.com/ty/cdn/yhst-48483384951716/chemtechmanual.pdf>
 - Replace Carbon Media Bed
 - Carbon Kit Link: <http://www.glasswatersystems.com/camerekit.html>
 - Carbon Replacement Video: <http://www.youtube.com/watch?v=QCQstRzh6VI>
- PLEASE NOTE THESE HAVE TO BE DONE ANYWHERE FROM 1-3 YEARS. YOU SHOULD CONSIDER HAVING US GUIDE YOU OR REPLACE THESE PARTS FOR YOU. WE HAVE A FULL SERVICE DEPARTMENT

Trouble Shooting

- Trouble shooting the chlorinator
 - No chlorine residual
 - Check to make sure your pump is pumping. The line from the pump to the pipe will be jumping and chlorine will be going down
 - If this is not happening you will have to use the priming valve on LMI Unidose pumps. Turn the pump priming valve a quarter turn and plug pump directly in. You will see water coming out of the priming ¼" line. Once all the air is out of line turn it back a quarter turn and you will see the line starting to jump
 - If this does not work call Glass Water Systems or consult your manual
 - On chemtech pumps take the top line off the pump and pour water down the top of pump until water starts pumping out. Reconnect the line.
 - Stenner pumps do not lose there prime so if this occurs you may need to replace your tube
 - All pumps have an injector that has to be cleaned out every so often.
 - Heavy Chlorine in home
 - Make sure carbon filter is not on bypass and manually backwash filter
 - ALL OTHER PROBLEMS CONSULT YOU MANUALS OR CALL GLASS WATER SYSTEMS AT 813-626-9498

Shocking Your House

- We have a separate sheet for this which we can give you.
- This should not be done as a norm but only on rare occasions
- Please call us at 813-626-9498 with any questions