



FORT DEFIANCE INDUSTRIES

Portable Water Softener (PWS) Regeneration Guidelines

Regeneration Procedure:

1. Shut off water supply & disconnect inlet/outlet hoses from PWS.
2. Install garden hose swivel union (provided on chain) to outlet of PWS & connect water supply hose to union.
3. Connect outlet hose to inlet of PWS.
4. Turn on water supply and backflush for 5 minutes with full flow (e.g., ≥ 1 GPM)
5. Shut off water supply, remove swivel union & reconnect hoses normally per the Hook-Up Procedure above.
6. Remove top cap from PWS, pour in two 26 oz. containers of salt and reinstall cap (do not overtighten).
7. Open water supply slightly & slow rinse for 30 minutes (DO NOT EXCEED $\frac{1}{4}$ GPM).
8. Open water supply & fast rinse for 5 minutes with full flow (e.g., ≥ 1 GPM).
9. Taste water. If no salty taste, regeneration is complete.

How to estimate PWS capacity between regeneration cycles:

1. Test water supply using individually wrapped test strips from Fort Defiance Industries (provided)
2. Divide 16,000 by the Grains Per Gallon (GPG) resulting from the test in step #1.
3. The result is an estimate of the gallons that can be softened between regeneration cycles.

Example: Water test strip showed total water hardness to be 15 GPG.

PWS Capacity between regeneration cycles = $16,000 \div 15 = 1,067$ gallons

Downstream equipment uses 20 gallons/day. Regen every 53 days (e.g., $1067 \div 20 = 53$)

When to regenerate PWS:

1. Use method above to determine approximate time between regeneration cycles.
2. Keep log book or other method to determine when to regenerate.
3. To confirm that PWS needs regenerated, test outlet water stream with test strip. If the GPG is similar to the water supply, then PWS is not softening and should be regenerated.

Test strips (P/N PWS-201) and replacement parts can be obtained by contacting Fort Defiance Industries, Inc.