

System 133210 and 134815
Installation, Startup, Operation.

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Caution

Observe all warnings and cautionary statements contained in the equipment manuals. Comply with all local building, electrical and plumbing codes, ordinances, rules and laws. These instructions assume the installer possesses the skills to properly install a drinking water treatment system. Only competent persons should attempt installation. If you are in any way unsure of your abilities to complete this project properly, consult with qualified personnel.

Installation

Study all manuals and instructions before starting the installation project.

Follow all directions and safety instructions on the containers of glue, cleaner, thread sealant and other supplies. Use appropriate personal protective equipment as needed.

- 1 Select installation area. Level, minimum 5' x 8'. Min height 7.5'. Allow adequate room for service to the system.
- 2 Area must not be subject to flooding, falling tree limbs or other hazards. Provide cover from weather. Protect from freezing and extreme heat. Assure adequate ventilation.
- 3 Electric requirement 2 outlets 120 VAC, 15 amp, GFCI. Surge protection is desirable.
- 4 Set up tanks from left to right; softener, filter, 120 gal retention tank.
- 5 Install as follows. See the flow diagram for details.
 - Inlet of 120 gallon tank. Gate valve, dual check backflow preventer, and chlorine injector. See manufacturer instructions.
 - Drain for 120 gallon tank. Construct pipeline and gate valve for drain as needed. See manufacturer instructions.
 - Outlet at top of 120 gallon tank. See manufacturer instructions. Be sure to install the vacuum relief valve or terrible things may happen.
 - Spigot for water sample collection.
 - Flow switch prior to inlet of filter
 - Filter outlet to softener inlet
 - Softener outlet to system outlet to point of use.
 - Drain assemblies, Construct pipelines for drains as needed. Provide secure support.
- 6 Do not allow pipe to strain tank fittings. Build supports as needed.
- 7 Install drain assembly. Run pipe to a location that will not cause a hazard. Allow enough slope to assure operation of drain. Do not connect other pipes to drain.
- 8 Connect source water to inlet and finished water pipe to outlet.
- 9 Make sure all valves and bypass valves are closed.
- 10 Plug in softener and filter. Set clocks to correct time of day. Install salt tank tubing. Do not over-tighten fittings.
- 11 Install chlorine pump according to manual. Plug chlorine pump to flow switch top outlet. Outlet is active when water flows through flow switch.
- 12 Double check everything.

Start up

- 1 Remove chlorine injector. Open inlet to 120 gal tank. Pour ½ cup of liquid chlorine into inlet pipe. Re-install injector.
- 2 Open spigot at filter inlet part way.
- 3 Open water inlet ½, allow 120-gallon tank to fill. Air will flow from spigot.
- 4 Close spigot when air is purged and water comes out.
- 5 Open water inlet all the way.
- 6 Turn filter bypass to service. Allow tank to fill.
- 7 Let filter tank soak 20 minutes.
- 8 Attach a hose to spigot near system outlet.
- 9 Open valve near flow switch.
- 10 Open spigot and let hose run until water is clear. Close spigot.
- 11 Turn filter control backwash position. Allow air to purge from tank. When water flows into drain, turn control knob to service position.
- 12 Turn softener bypass to service position. Allow tank to fill. No soak time is needed.
- 13 Open spigot and run hose until water runs clear. Close spigot.
- 14 Turn softener control knob to backwash position. Allow air to purge from tank. When water flows into drain, turn control to service position.
- 15 Put 1 gallon of liquid chlorine into chlorine tank and fill tank with water.
- 16 Turn chlorine pump on.
- 17 Add about 4" water to salt tank. Add salt.
- 18 Set backwash schedule as follows:
- 19 Place both day wheels on day 1.
- 20 Filter backwash schedule is _____
- 21 Softener backwash schedule is _____
- 22 Measure chlorine residual daily until a residual between 1.0 and 3.0 mg/L is reached. Adjust chlorine mixture as required.