

LaMotte

Water Resources Demo Kit

Code 11-8540 or 11-8546

Safety Information

Please read the instruction manual thoroughly to familiarize yourself with the test procedures before you begin. Make note of any precautions in the instructions.


Labels on each LaMotte reagent container also provide important information pertaining to the nature of the reagents. Labels may include precautionary notes or antidote information. These reagents are for chemical tests only! Keep all chemicals away from children. *WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents see MSDS CD or our web site. To obtain a printed copy, contact us by e-mail, phone or fax.




Testing Hints

1.


Tightly close all reagent containers immediately after use. Be sure not to interchange caps and pipets from different containers.


2.


Avoid prolonged exposure of equipment and reagents to direct sunlight.

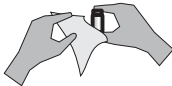

3.

Protect reagents and components from extreme heat and cold.


4.

Wipe up any reagent chemical spills, liquid or powder, as soon as they occur. Refer to label and MSDS for proper reagent disposal.


5.




Use care when dispensing or handling all reagents. Some chemicals may cause permanent stains if spilled.


Soap Demonstration

1.


Thoroughly rinse the "SOFT" water flask (0453) with softened water.


2.

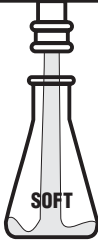
Thoroughly rinse the "HARD" water flask (0452) with untreated water.


3.

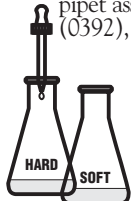
Fill the "HARD" flask (0452) with untreated water until the bottom surface is covered with a layer of water about 1" deep.


4.


Fill the "SOFT" flask (0453) with softened water to the same level.


5.


With the screwcap pipet assembly (0392), add 1 drop of *Soap Reagent #4 (4767) to each flask.


6.

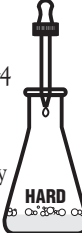
Cap and shake the flasks.


7.


A thick lather will form in the softened water.


8.

Continue to add *Soap Reagent #4 (4767) to the untreated "HARD" water, shake periodically until a lather forms.


9.


Extremely hard water may require 30, 40, or even 60 drops of *Soap Reagent #4 to produce a lasting lather.




Precipitation Demonstration

1.


Thoroughly rinse the "SOFT" water Demo Tube (0298) with softened water.


2.


Thoroughly rinse the "HARD" water Demo Tube (0297) with untreated water.


3.


Fill the "SOFT" Demo Tube (0298) to the line with softened water.


4.

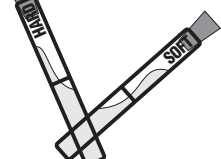
Fill the "HARD" Demo Tube (0297) to the line with untreated water.


5.


Use the glass pipet with cap (0344) to add 5 drops of *Precipitation Reagent A (4542) to each tube.


6.

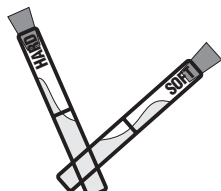
Cap and mix.


7.


Use the plastic pipet with cap (0392) to add 5 drops of *Precipitation Reagent B (4543) to each tube.


8.


Cap and mix.


9.

Place tubes in the Precipitation Rack (0879) and allow the tube to stand for 5 minutes.


10.


Hard water will form a heavy precipitate while the Soft water remains clear.

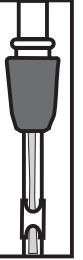



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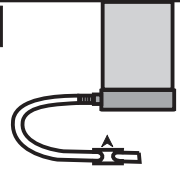
Softener With Resin & Charcoal

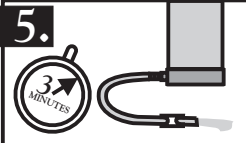
Instructions For Use

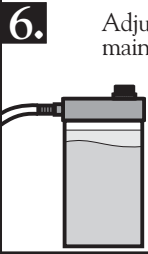
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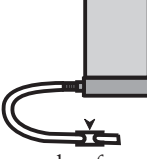
1. Attach adapter on inlet hose to faucet. Fully open clamp on inlet hose.
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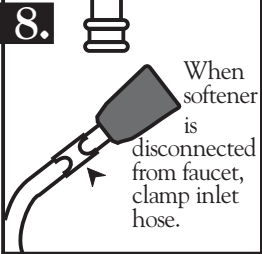
2. SLOWLY turn on faucet and adjust the flow of water into softener until the stream of water is about 1/8 inch in diameter.
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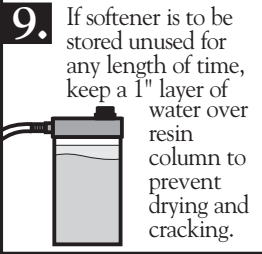
3. Fill chamber until a 1" layer of water is visible over the resin.
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4. Unclamp outlet hose at bottom of softener.
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5. Let effluent run to waste for about 3 minutes to wash out residue from the previous sample.
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6. Adjust flow to maintain the 1" layer of water over resin.
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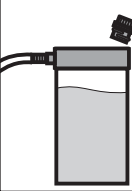
7. After enough softened water has been collected, turn off faucet and clamp outlet hose.
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8. When softener is disconnected from faucet, clamp inlet hose.
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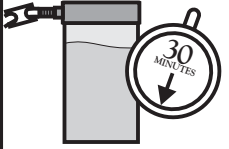
9. If softener is to be stored unused for any length of time, keep a 1" layer of water over resin column to prevent drying and cracking.

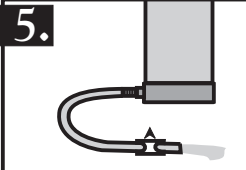
Regeneration of Resin

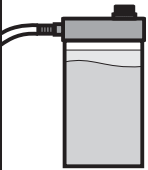
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1. Prepare salt solution by dissolving about 1/2 pound of salt (sodium chloride) in 1 quart of water.
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2. Remove black plug from top of softener.
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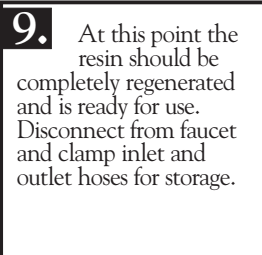
3. Clamp outlet tube. Add salt solution until softener is completely full.
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4. Allow to stand for about 30 minutes.
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5. Unclamp outlet tube and allow salt solution to run to waste.
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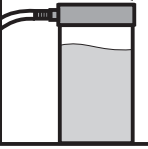
6. Replace black plug in top of softener.
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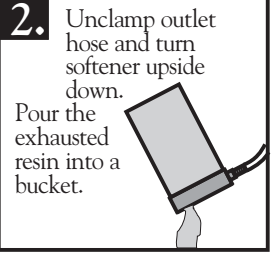
7. Attach adapter to faucet.
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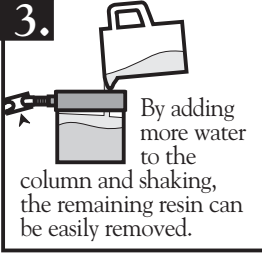
8. Wash resin with approximately 1 gallon of tap water.
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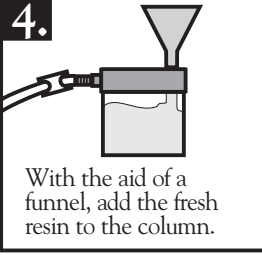
9. At this point the resin should be completely regenerated and is ready for use. Disconnect from faucet and clamp inlet and outlet hoses for storage.

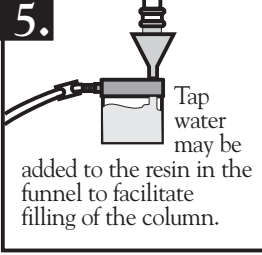
Replacement of Resin

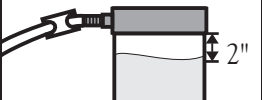
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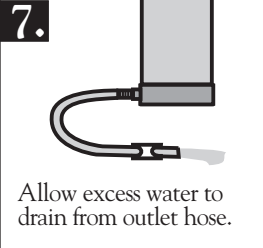
1. Remove black plug from the top of dispenser.
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2. Unclamp outlet hose and turn softener upside down. Pour the exhausted resin into a bucket.
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3. By adding more water to the column and shaking, the remaining resin can be easily removed.
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4. With the aid of a funnel, add the fresh resin to the column.
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5. Tap water may be added to the resin in the funnel to facilitate filling of the column.
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6. Continue adding resin to the column until the resin is about 2" from the top of the column.
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7. Allow excess water to drain from outlet hose.
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8. Replace the black plug in the top of column.
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9. Connect softener to faucet and proceed with the above section, Instructions for Use.