



eSpring Demonstrations Using System



General Checklist for all demonstrations

- Only use cold water that has been treated by a municipal water supply. NEVER USE HOT WATER!
- Use only the “contaminants” listed in the following demonstration instructions. Other materials may damage the unit or pose a potential hazard and may not work as well over time.
- Filters used in demonstrations may have to be replaced more frequently than normal. This is because contaminant levels in demonstrations are much higher than those encountered in normal operation, which reduces filter life.
- Before each presentation, check the colour and flow rate of the water coming out of the filter. If either is unacceptable, replace the filter.
- Before using a new filter in a demonstration, flush the filter for 10 minutes, then let it soak inside the housing for several hours. This ensures the filter will function properly. If this is not done, excess carbon particles may appear in the treated water.
- Do not combine the additives used in demonstrations. This may lead to unsuccessful results and/or shortened filter life.

Chlorine – Taste & Odor Demonstration

Equipment needed:

- Liquid chlorine household bleach (5-6%) unfragranced
- 5-6 large water glasses
- Spoon
- 1 bottle of Ortho-tolidine (OTO) solution, available at swimming pool supply stores.

Note: Use only liquid bleach. Dry chlorine bleach formulas are not for human consumption.

Procedure:

1. Using 300 mls of tap water add 10 drops of liquid bleach and mix well.
2. Take a clean 250 ml (8 oz) glass and add 25 mls of the chlorine solution from step 1 and fill with tap water. This is your standard. Add 3 drops of OTO into the standard chlorine solution glass. This should turn yellow in color from the reaction of chlorine and OTO. Set aside for comparison.
3. Pour rest of chlorine solution into the bottom of empty system housing. Reassemble the system and filter the chlorine solution through the system. Collect the first 3-4 glasses of treated water out of the system. Add 3 drops of the OTO to each. Compare colorless treated water to the standard demonstrating how the chlorine is removed.

Note: Do not drink or put any solutions through eSpring that contain OTO.

eSpring Water Purifier Demonstration

Required Items:

1. Plastic 5 gallon (19 liter) water tank
2. Compact submersible centrifugal pump 1/12 HP motor
3. Kitchen faucet with threaded end adaptable to the eSpring Water Purifier
4. Wood stand for faucet (will need to make and finish exterior surface)
5. Plugs for kitchen faucet on the hot water and sink sprayer plumbing connection
6. Tubing
7. Fluted 6-8 oz (170-227 ml) wine glass
8. Red food coloring
9. Bucket or pail

Detailed Description of Required Items

Plastic 5 gallon (19 liter) water tank

Octagon or hexagon 5 gallon (19 liter) aquarium made of rugged molded plastic or any clear plastic container that holds water may be substituted.

Examples shown here measure:



Compact submersible centrifugal pump 1/12 HP motor with correct voltage and plug configuration for your market.

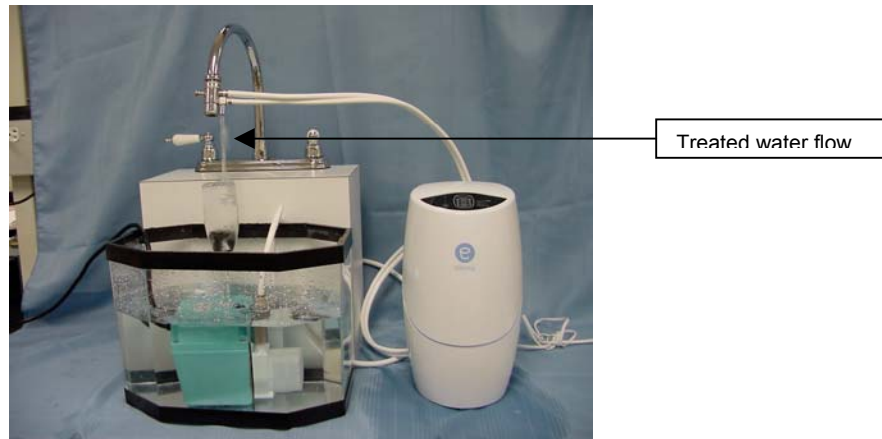
This pump is a low pressure, high volume centrifugal pump that is used for evaporative coolers, fountains, water gardens, and coolant systems. The example shown here is die-cast aluminum 1/12 HP motor and measures 5.5 in (14 cm) height, 4.5 in (11.4 cm) length, 7.1 in (18 cm) depth.



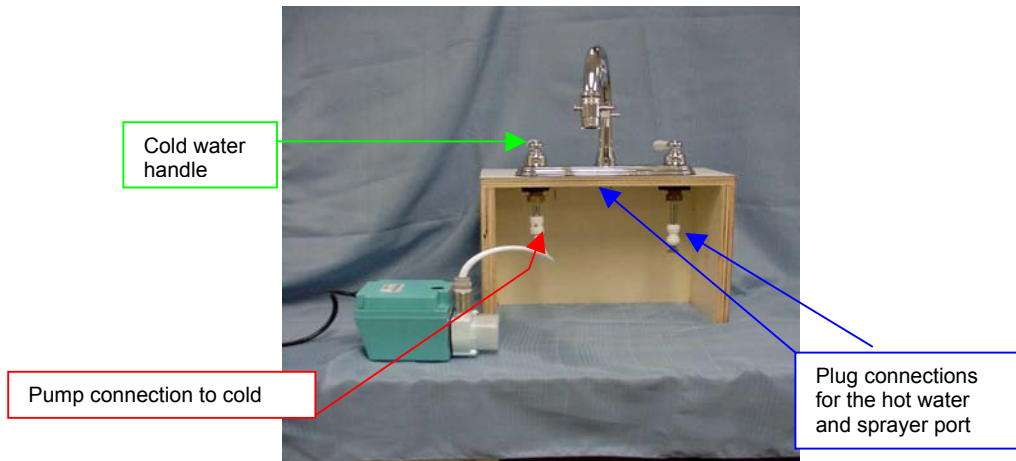
Kitchen faucet with threaded end adaptable to the eSpring Water Purifier and wood stand
These stands measure 13in (33 cm) height, 14.6 in (37 cm) width, 7.9 in (20 cm) depth.



It is important that the position of the faucet end, with the diverter attached, allows the treated water to flow into the center of the tank when it is installed onto the stand.



Looking at the back of the faucet and stand, the pump will be connected to the cold water faucet connection. The faucet cold water handle will need to be open when the pump is running and water is flowing. If there is a hand sprayer attachment, this will need to be detached and the connection plugged. The hot water connection will also need to be plugged.



Connect the water pump to the cold water faucet with a piece of tubing. The tubing length must be long enough to connect to the pump when it is inside the water tank or aquarium.

Fluted 6-8 oz (170-227 ml) wine glass

Any long stem wineglass will work as long as it will fit under the diverter while it sits on top of the pump inside the tank.

Red food coloring

Purchased at food supply store.



Completed Demo Set-up



It may be necessary to add more food coloring during the demonstration. The water treatment system will be removing the color and after time the tank water will lighten and eventually become clear. Make sure that you do not add too much dye because it will reduce the life of the filter.

Red Food Coloring

Equipment needed:

- Red food coloring from a food supply store
- 5-6 large water glasses
- 500 ml container
- Spoon

Steps:

1. In a container, add 400 mls of tap water and 4 drops of red food coloring.
2. Take a clean 250 ml (8 oz) glass and add 100mls of the red food coloring solution from step 1 and fill with tap water. This is your color standard. Set aside for comparison.
3. Pour remaining food color solution from step 1 into the bottom of empty system housing. Reassemble the system and filter the red color solution through the system. Collect the first 3-4 glasses of treated water out of the system and compare it to the standard.