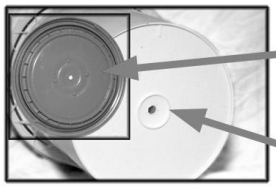
CERAMIC FILTER DRIP SYSTEM

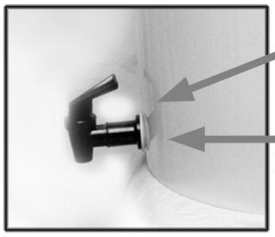
removes 99.999% bacteria
reduces virus, arsenic and fluoride
0.2 micron filter



Lid with 5/8 inch hole drilled in it's center

Top bucket with 5/8 inch hole in the center of it's bottom

Spigot with 2 washers and hex nut

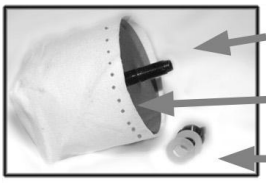


3/4 inch hole drilled 2 inches above the bottom rim of the bottom bucket

Spigot installed in the bottom bucket with 1 washer on the inside and the other washer on the outside

Drill a vent hole, 1/16 inch, in the top section of both buckets

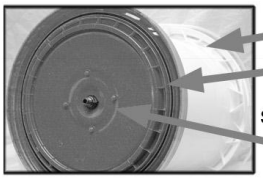
Filter and sock (pre-filter)



Ceramic filter with sock installed

Place rubber band where red dots are located

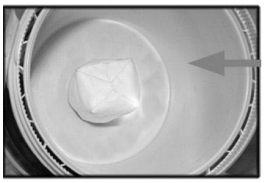
2 washers and wing nut



Top bucket with installed filter

Lid that goes to bottom bucket

Stem of filter with washer and wing nut installed,



Inside of top bucket with installed filter

Completed filter unit

Siphon Tube

Construction Steps:

1. Build the gravity drip system.
2. Using a piece of tubing that is approximately 18 inches long and 5/16 inch OD, insert the tubing into the stem of the filter. Just far enough so the tubing will stay in place. (See the illustration)
3. Let the free end of tubing lay in the bottom of the bottom bucket.
4. Fill the top bucket with water and as the water is filtered it will cover the end of the tubing.
5. As soon as the end of the tubing is covered the filtering process will speed up.

Normally the 5 gallon Gravity Drip System will filter between 12-15 gallons of water per day BUT with the siphon tube the amount will be around 35 gallons per day.

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MADE IN THE USA

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INSTALLING THE FILTER

1) Remove the filter from its box.
2) Place one washer on the stem of the filter.
3) Insert the stem through the hole in the top bucket and through the lid of the bottom bucket.
4) Place the 2nd washer on the stem and attach the wing nut.
5) Turn the wing nut until tight.
6) Fill about 1/3 of the top bucket with water and check for leaks.
7) If a leak is detected repeat step 5.
8) Place the sock over the filter and use one rubber band to hold the sock in place.

IT IS VERY IMPORTANT THAT THERE IS NOT A LEAK AROUND THE FILTER STEM. THE CLEAN WATER, IN THE BOTTOM BUCKET, WILL BE CONTAMINATED BY THE WATER FROM THE TOP BUCKET.

FILLING INSTRUCTIONS

9) **Before using the filter system it is recommended to sanitize the buckets with a diluted bleach solution. 1 teaspoon of bleach mixed with 1 gallon of water will do the job.**
10) Wipe down the outside and the inside of each bucket with the bleach solution. Let stand for 3-5 minutes then wipe off with a dry paper towel or cloth towel.
11) Assemble the filter unit and set on a level surface.
12) Fill the top bucket with water.
13) As water is removed from the bottom bucket add that amount of water to the top bucket.

FLOW RATE

14) It will usually take a couple of days for the flow rate to reach its' maximum output—around ¾-1 gallon per hour. The flow rate increases as the ceramic shell and the mixed media (inside the ceramic shell) become saturated with water.

CLEANING INSTRUCTIONS

15) When the flow rate of the filter decreases, this would indicate that the sock and the filter might need to be cleaned.
16) Using rubber gloves remove the sock and rinse it in clean water.
17) As the filter is used and is in contact with dirty water the white ceramic shell will become stained and the pores of the clay will become clogged with particulates.
18) Using a Scotch-Brite pad (green scrub pad) GENTLY rub the surface of the filter. This will remove some of the stain and the dirt.
19) Rinse with clean (filtered) water.
20) Reassemble the filter unit and fill it with water.

NEVER USE ANY TYPE OF SOAP WHEN CLEANING THE BUCKETS, THE SOCK OR THE FILTER. THIS WILL RUIN THE FILTER AND IT WILL NO LONGER FUNCTION PROPERLY.

INPORTANT

Once you start using the filter, the carbon based media is good for about 1 year, depending upon the quality of water. The ceramic shell, which is filtering out the bacteria, will last between 1-2 years. Replacing the filter depends upon the flow rate. If the flow rate is very slow even after cleaning the filter, it should be replaced or if the filter has been cleaned 100 times.

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