

## 1 WATER FILTER

### Instruction manual Tulip water filter

How to make safe drinking water?



This water filter removes bacteria and parasites from contaminated water, prevents water borne diseases, and delivers crystal clear safe drinking water.



1. Upper container for contaminated water. Place this container about 70 cm. above level of lower container. The speed of filtration is faster when the container with contaminated water stands at a higher level.
2. Plastic jar with ceramic filter element and washable pre-filter.
3. Plastic connector for adjusting the desired hose length.
4. Rubber bulb to start the filtering process of water and to clean the ceramic element.
5. Opening and closing tap.
6. Lower container with lid and tap for safe storage of drinking water.



## 2 USING YOUR FILTER

### START

#### Using a new filter element.

Let the filter element stay in water during one night and do not use the first 15 liters of filtered water because it has a ceramic taste! The ceramic filter element can have black or grey spots. This is because of the silver and is of no health problem.

Open the tap and squeeze the bulb. Wait until the bulb slowly has been filled with water and filtered water starts flowing out of the tap. When the filter element is dry this has to be repeated a few times.



### CLEANING backwash

After a while the ceramic element will become dirty, reducing the water flow. Now the filter has to be backwashed. Close tap and press bulb firmly. Wait till the bulb is again filled with water and open the tap. When the flow is not enough after doing this, repeat this a few times. Backwash the filter at least one time per day. Frequent backwashing results in a longer life of the ceramic element. In case dirty water is used, remove the water filter from the top bucket while back washing.



## 3 CLEANING

### CLEANING ceramic element

If backwashing does not increase the flow, the lid has to be unscrewed and the filter element has to be cleaned gently with the round scrub pad rinsing with clean water (do not use detergents or cleaning agents!). Remove only as little as possible of the ceramic material, as this will shorten the lifetime of the element.



Store scrub pad at a safe place in your kitchen.

### CLEANING pre-filter

When the pre-filter becomes dirty, remove the pre-filter from the ceramic element and wash it in clean water. In case of dirty water this cleaning should be done a few times each week. In case the contaminated water is clear the pre-filter is not needed.



## 4 REPLACING CERAMIC ELEMENT

### When to replace filter element

The filter element has to be replaced when the plastic sensor fits around the thinnest part of the filter element. To test this, unscrew the wing nut and remove the plastic sensor from the cap to check diameter. If the sensor fits over the filter element, the diameter of the filter element has become too small to deliver safe drinking water..



### How to replace filter element

Cut the hose near the nozzle with a knife. Now it is easy to connect the hose to the replacement filter element by pushing. In this way for each replacement filter element about 1 cm. of hose will be used.



## 5 HYGIENE

It is suggested the lower container has a tap and lid. If not and water is taken out with a cup make sure cup and hands are clean. Lower container should be cleaned frequently. Keep the lower container covered with a lid.

### Filtering dirty water

When the contaminated water is dirty, let it stay overnight to allow dirt to sink to the bottom. Then pour the dirty water through a double folded piece of cotton into the top bucket.

If the dirt in the water does not sink to the bottom, the water should be pre-treated with a flocculant (alum or Moringa seed) as the filter element has to be cleaned too often, substantially reducing the treatment capacity of the filter element.

Manufactured by Basic Water Needs India Pvt. Ltd. Patent pending.  
([www.basicwaterneeds.com](http://www.basicwaterneeds.com)) Sept. 2009