

Aquaboxes with Aquafilters

Safe water for families and communities

History

The Standard Aquabox is very effective in delivering safe water in emergencies, but the use of chemical tablets with a carbon filter means have a relatively limited and finite capacity. So Aquabox and The Safe Water Trust have been working together for the last two years to find a longer lasting solution.

The Aquafilters use membrane technology to provide portable cost effective hand operated filter units.

Research in the field identified two requirements; a water supply for schools, hospitals, and other organised communities, and a water supply for families.

The Aquafilter Family



This fits into a **Standard Aquabox**. The box is filled with water, and the filter clipped onto the side. The user then just has to pump to get drinking water at the rate of 1 litre a minute.

A washable gauze filter first removes the larger particles, and the membrane removes the smaller biological contaminants. Excess water flows up and down the membrane, keeping it free from clogging.

Periodic maintenance includes greasing the pump seal from built in grease store; replacing the pump seal with a spare attached to the piston rod; and chemical washing with a tablet from an attached pot.

The unit can also be fastened to a bucket, a jerry can with a hole cut in it, or a traditional ceramic jar.

The Aquafilter Community



The Aquafilter Community was developed for schools and other organisations, and fits into an **Aquabox Community**. This makes for easy storage and transport as part of an Aquabox consignment. The **Aquabox Community** will replace **Aqua30's**

It operates by a hand pump, and delivers up to 300 litres of drinking water an hour.

It has a washable gauze pre filter to remove solid particles followed by a membrane filter which removes biological contaminants. The membrane is washed by reverse flushing.

Periodic maintenance includes greasing the piston seal with grease supplies from a built in container, seal replacement by a new seals stored on the piston rod, and chemical washing with tablets stored on the unit.

Both units remove biological contaminants commonly found in water from open wells, and surface water. They do not remove dissolved substances such as salt or arsenic sometimes found in deep wells.

Tests by the University of Newcastle upon Tyne show bacteriological removal exceeds EPA standards.



Responding to Haiti emergency
User said "this is good, very easy to use"



Safe water for a village with a damaged well in The Gambia



Safe water for an extended family in The Gambia



Safe water for 500 children in a boarding school



Drinking water from a muddy spring
For Street Children in Honduras.

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The Safe Water Trust is a non profit making Company by Guarantee, supported by Cleaton and District Rotary Club. It is a continuation of the good work done by the Rotary District 1030 Aquafilter Trust, which pioneered membrane filters for Developing Countries.

The Safe Water Trust and Aquabox have a joint venture agreement to cover these particular Aquafilter membrane technology developments.