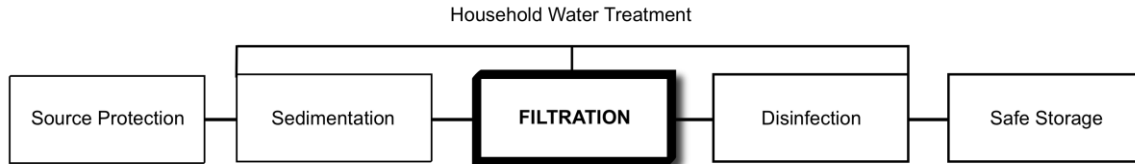


Household Water Treatment and Safe Storage Product Sheet: Concrete Biosand Filter

Treatment Type



Product Name: Concrete biosand filter

Product Manufacturer: Designs are freely available from CAWST, Calgary, Canada

Manufacturer Location(s): Constructed locally

Product Description: Square concrete filter with diffuser plate and lid. The filter box is cast from a steel mold. The filter box is filled with layers of sieved and washed sand and gravel.

Availability: As of June 2009, CAWST estimates that over 200,000 concrete biosand filters have been implemented in more than 70 countries.

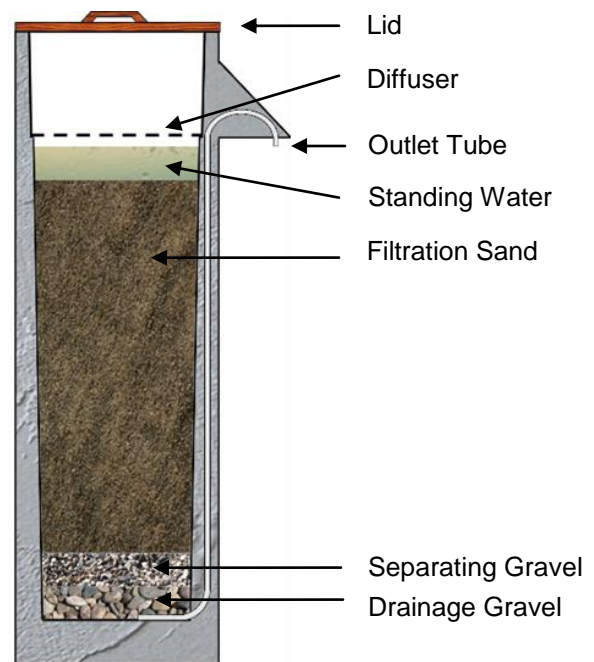
Robustness: There are no moving or mechanical parts to break. Outlet pipe is embedded in the concrete, protecting it against breaks and leaks. Poor transportation can lead to cracking and/or breakage; cracks can sometimes be repaired. Filters should not be moved after installation.

Lifespan: 30+ years, still performing satisfactorily after 10+ years

Dimensions: 0.9 m tall by 0.3 m

Weight: 70-75 kg for thin wall version and 135 kg for heavy wall version (empty with no sand)

Costs: US\$12-60, costs will vary depending on location



Further Information

CAWST (Centre for Affordable Water and Sanitation Technology): www.cawst.org