

type of source	product name	URLs	Types: Solar; Filtration; Chemical; Point of Use Filtration; and Portable Filtration Straw efficacy brief : materials, life expectancy (liters, months, years), approvals, associations, installation, etc.	cost/liter	purifying medium	supporting documentation	u-tube	Local contact or ordering information
solar	<b>Water Cone</b>	<a href="http://www.ecofriend.org/entry/eco-gadgets-low-tech-water-purifier-doesn-t-cost-a-fortune/">http://www.ecofriend.org/entry/eco-gadgets-low-tech-water-purifier-doesn-t-cost-a-fortune/</a>	Dirty water is poured into carwheel sized pan and cone snugly fits on top. The technology uses natural condensation to purify and separate potable water (yields 1-1.7 liters/ day). Water collects on the inside of the cone which runs down into a collection chamber around edges. Seems durable and portable. Could be slow and unpredictable. Rate of collection depends on duration and strength of sunlight.	\$30 per cone or 2-5 cents per liter over 5 year lifetime.	Solar Distillation	<a href="http://www.mage-management.com/">http://www.mage-management.com/</a>	<a href="http://www.youtube.com/watch?v=On7gbKIa5zc&amp;feature=player_embedded">http://www.youtube.com/watch?v=On7gbKIa5zc&amp;feature=player_embedded</a>	Ulrike Winter Tel: +49-(0)89-147296-14 Email: winter@mage-watermanagement.com
solar	<b>SODIS (Solar Water Disinfection)</b>	<a href="http://www.sodis.ch/news/material/flyer_poster/flyer_e.pdf">http://www.sodis.ch/news/material/flyer_poster/flyer_e.pdf</a>	Glass or plastic PET bottles/bags are placed in sunlight to kill bacteria, viruses, and other microorganisms. Chemical composition of water remains same. Highly turbid water requires up to 2 days of sunlight or pretreatment. Normally requires 6 hours of constant sunlight. Low cost with respect to materials but requires training and constant human oversight (1 qualified promoter per 50 households). Bottles last 3-4 months. Studies show a 30-80% reduction in diarrhoea.	Less than \$1 /day but training costs are 30,000-50,000 Euros/ year	Natural Sunlight	<a href="http://www.hedon.info/SODIS-SolarWaterDisinfection">http://www.hedon.info/SODIS-SolarWaterDisinfection</a>	<a href="http://www.sodis.ch/news/video/index_EN">http://www.sodis.ch/news/video/index_EN</a>	SODIS Ueberlandstrasse 133 P.O. Box 611 8600 Duebendorf Switzerland Phone +41 44 823 53 92 Fax +41 44 823 53 99 info@sodis.ch
solar	<b>Aquapak and Water Pasteurization Indicator (WAPI)</b>	<a href="http://www.solarsolutions.info/products/AquaPak/page.html">http://www.solarsolutions.info/products/AquaPak/page.html</a>	3 gallons of water/ day maximum. Can carry 1 gallon at a time. Durable for 3 years. Plastic (polyethylene) packaging, black foam rubber, UV inhibitors, and airfilled bubble pack sheets. Includes a WAPI, a built in monitor to read when water or milk is ready for consumption. This is a small plastic/glass tube which contains a special ball of wax melts and sinks to the bottom when liquid is heated to pasteurization temp. WAPIs can be sold separately. 1 in 10 to 15 (2.5-5%) are faulty. Not a lot of info about the producer and website seems a little incomplete	\$20.00 each or self manufacture for less than \$2.00/day	Natural Sunlight	<a href="http://www.solarsolutions.info/press/pressreleases.html">http://www.solarsolutions.info/press/pressreleases.html</a>	<a href="http://www.youtube.com/watch?v=NCB1yFNHIQU">http://www.youtube.com/watch?v=NCB1yFNHIQU</a>	Phone (858) 695 3806 Fax (858) 695-3807 information@solarsolutions.info

Filtration	<b>Tata Swach</b>	<a href="http://www.tata.com/company/relations/inside.aspx?artid=TtOdcclNuSRk=">http://www.tata.com/company/relations/inside.aspx?artid=TtOdcclNuSRk=</a>	Plastic components (18 liter capacity). Water filters through rice husk ash and "nano-silver particles". Filters 3,000 liters before switching off (Roughly 4 years for one person's average consumption). Requires a \$6 replacement filter. Kills bacteria and water borne diseases. Does not filter out 20 percent of contaminants, like arsenic. New variant (Swach Magic) compatible with different water vessels. New product so it may have design flaws and other bugs.	\$16/ unit (Magic variant is half price)	Rice Husk Filtration	<a href="http://www.theindiaexpress.com/low-cost-water-purifier-bottom-%20of-the-pyramid-innovation-from-tata">http://www.theindiaexpress.com/low-cost-water-purifier-bottom-%20of-the-pyramid-innovation-from-tata</a>	<a href="http://il.youtube.com/watch?v=p2JzaKeq5NE&amp;feature=channel">http://il.youtube.com/watch?v=p2JzaKeq5NE&amp;feature=channel</a>	Tata Communications Exchange 35 Tai Seng Street #06-01 Singapore 534103 Singapore Tel: +65 6632 6700 Fax: +65 6634 8570
Filtration	<b>Rapid Sand</b>	NA	Traditional filtration system using coarse sand. Requires disinfection, and high maintenance. Usually used as part of a multifaceted water treatment system. Too expensive for developing countries. Produces sludge and requires compressed air.		Natural Filter	NA		
Filtration	<b>BioSand Filter</b>	<a href="http://thewaterproject.org/biosand_water_filtration.asp">http://thewaterproject.org/biosand_water_filtration.asp</a>	A household filter (size of water cooler) usually concrete (can be plastic) which uses different layers of sand and gravel to remove bacteria and pollutants. No chemicals or electricity is needed. Water travels through sediments and collects in plastic pipe. 90% bacteria and 100% parasite elimination, studies show. Needs frequent cleaning and consistency of quality is a problem.	\$70 to construct & install. Each can serve 10-15 people.	Natural Filter	<a href="http://www.biosandfilter.org/biosandfilter/files/webfiles/BioSandFilter_Construction_Guidelines.pdf">http://www.biosandfilter.org/biosandfilter/files/webfiles/BioSandFilter_Construction_Guidelines.pdf</a>	<a href="http://www.youtube.com/watch?v=YaOOmaGzx0g">http://www.youtube.com/watch?v=YaOOmaGzx0g</a>	info@bushproof.com <info@bushproof.com>
Chemicals	<b>Air Rahmat</b>	<a href="http://zambia.jhuccp.org/asia/indonesia/aman_tirta.shtml#4">http://zambia.jhuccp.org/asia/indonesia/aman_tirta.shtml#4</a>	Sodium Hypochlorite solution supplement to water. 3ml of solution required per 20 liters. After shaking and stirring, water is made potable after 30 mins. Boasts 40-80% diarrhoea prevention efficacy. Has been tested in Indonesia. Health risks are associated with longterm chlorine consumption including birth defects, bladder cancer and respiratory illness. Very cheap.	40 cents/ 660 liters of water (1 month's usage)	Chlorine	<a href="http://zambia.jhuccp.org/asia/indonesia/SWS_ARFAQ.pdf">http://zambia.jhuccp.org/asia/indonesia/SWS_ARFAQ.pdf</a>	<a href="http://www.youtube.com/watch?v=yN-qVFqlg_c">http://www.youtube.com/watch?v=yN-qVFqlg_c</a>	Indonesia (Safe Water Systems) Robert Ainslie, Chief of Party Ratu Plaza Building 20th Floor Jalan Jendral Sudirman Kavling 9 Jakarta, Indonesia 10270 Phone: (62-21) 720-7776 E-mail: robert.ainslie@jhuccp.org.id
Point of Use Filtration	<b>lifestraw Family</b>	<a href="http://www.vestergaard-frandsen.com/lifestraw">http://www.vestergaard-frandsen.com/lifestraw</a>	Lifetime of 18,000 liters. Is reported to be most efficacious in preventing diarrheah (according to one study). Brochure says the product requires no replacement parts. 3 year performance guarantee. Brochure only provides data showing maximum diarrhoea prevention efficacy.	Brochure suggests product can support "low-income settings"	Synthetic Filter	e-brochure-lifestraw-family-english.pdf	<a href="http://www.youtube.com/user/VestergaardFrandsen">http://www.youtube.com/user/VestergaardFrandsen</a>	PT Vestergaard Frandsen Indonesia, Wisma Nusantara, 12th Floor, Jl. M H Thamrin 59, Jakarta - 10350, Tel: +62 21 3913930 indonesia@vestergaard-frandsen.com

Portable Filtration Straw	<b>lifestraw</b> <b>2</b>	<a href="http://www.gizm.ag.com/go/4418/">http://www.gizm.ag.com/go/4418/</a>	Lifetime of 700 liters--enough annual drinking water for one person. Heavy water salination halves product lifetime. Suggests that can protect against diptheria, cholera, and diarrhoea, but no specifics provided.	\$2 per filter is original estimate	Synthetic Filter	<a href="http://www.vestergaard-frandsen.com/lifestraw/lifestraw">http://www.vestergaard-frandsen.com/lifestraw/lifestraw</a>	<a href="http://www.youtube.com/watch?v=SzzCSATFiyM&amp;feature=related">http://www.youtube.com/watch?v=SzzCSATFiyM&amp;feature=related</a>	PT Vestergaard Frandsen Indonesia, Wisma Nusantara, 12th Floor , Jl. M H Thamrin 59, Jakarta - 10350, Tel: +62 21 3913930 indonesia@vestergaard- frandsen.com
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