



**Bringing safe water
to millions.**

Is this possible?

Absolutely!



The Hydraid® BioSand Water Filter is a convenient in home system that provides an average family of 8 – 10 persons in developing countries with enough safe water daily for all their drinking, cooking and washing needs.

Based on patented technology and research, with a global network of partners for installation, education, maintenance and support; Triple Quest has the potential to bring the same health gains seen in US cities in the early 20th century to individuals, families and communities in developing countries, with the potential to save a million or more lives annually.

The Hydraid® BioSand Water Filter consists of enclosed layers of sand, gravel and a biological surface layer that consumes pathogens to clean water. It has no moving parts and is powered by gravity. With reasonable care it may last for 8 or more years.

Slow sand filtration (SSF) technology has been used to treat the drinking water of many European and American cities over the last 200 years. Introduction of slow sand filtration to American cities in the early 20th century was the primary factor responsible for the massive declines in infant mortality and waterborne disease!

The Hydraid® BioSand Water Filter is the inspiration that is the solution.

Be a part of it!



“We believe every day will be better!”

Easy to Use Features

- Convenient in-home, point-of-use filter
- Simple to install
- Simple to operate
 1. Water is poured into the top of the Hydraid® filter as needed.
 2. The water makes its way through a diffuser and the biological layer* that consumes pathogens, then down through layers of sand and gravel.
 3. Safe water collects at the base of the filter and flows by gravity out of the filter through plastic piping attached to the unit's exterior.
- Cleaned in place by user, no parts to replace, instructions provided
- Works for all water sources: ponds, lakes, cisterns, reservoirs, rivers, streams, shallow and deep wells, rain water, spring water, water from piped systems, delivered water, grey water

Life Saving Benefits

- Consistently produces enough safe water to meet daily household needs for drinking, bathing and washing
- Dramatically reduces diarrhea, skin and urinary tract infections
- Improves health, strength to work, and ability to go to school
- Affordable, clean, safe water for less than 3¢ a day**
- Significantly reduces household labor burdens securing clean water
- Saves wood/fuel used to boil water
- Significantly reduces carbon footprint caused by stoves, etc. boiling water
- Saves money otherwise spent on water
- Suitable in the most demanding environments

* on average takes two weeks to form

** assumes a cost of US\$100 spread over the estimated filter life of 10 years

Technical Features

- Dimensions: Height - .77m (30.5”), diameter - .42m (16.5”)
- Weight: Empty - 3.6kg (8 lbs.), Filled – 63.5kg (140 lbs.)
- Construction: UV resistant, medical-grade plastic, FDA approved materials
- Intended Use: Point-of-use in homes
- Easy Installation: About 30 minutes (level and fill with sand)
- Prep Time: Surface biological layer forms naturally in about 2 weeks
- Power Source: Gravity (no electricity or plumbing required)
- Convenient: Operates on demand
- Filtering Capacity: 47 liters/hour with intermittent use
- Family Size: Serves the needs of 8-10 people daily
- Low Maintenance: Cleaned in place by user, no parts to replace, instructions provided
- Average life expectancy is 8 - 10 years *
- No moving parts
- Uses pre-bagged filter media
- Limited one-year warranty
- Patented technology developed by Dr. David Manz based on the traditional slow sand filter process

* not a guarantee of a specific unit's performance

Performance Claims – Really gets the job done

- Removes up to 99.8% of deadly parasites with a fully formed biolayer**
- Reduces diarrhea by 47%



** filter does not remove heavy metals

Research Center

- Efficacy - BioSand point-of-use technology is well-recognized and respected by academic researchers, independent corporations, governments, UNICEF and the World. Source: “Independent Distributors Network: Business Plan” Dow-Accenture 29-May-09. Health Organization. Several research studies further validate BioSand technology and rank it highly compared with other water filtration technologies.
- Technology - In 2008, Dr. Mark Sobsey, presented to USAID the findings of his 2007 research in Cambodia which reported that 88% of BioSand filter technology installed over an 8 year period remained in service.
- Efficacy - Dr. Christine Stauber from the University of Georgia published a randomized, controlled trial of BioSand filters in the American Journal of Tropical Medicine and Hygiene (2009). The study was conducted in the Dominican Republic and demonstrated a significant 47% reduction in diarrheal disease. This reduction was greatest among children ages 2-4, those most at risk, and was conducted in isolation of other hygiene and sanitation interventions. Stauber, Christine E., et al. “A Randomized Controlled Trial of the Concrete Biosand Filter and Its Impact on Diarrheal Disease in Bonao, Dominican Republic”. American Journal of Tropical Medicine and Hygiene, 80(2), 2009, pp.286-293.
- Comparative Study - Ranking Compared to Other Technologies - Dr. Mark Sobsey, a researcher from the University of North Carolina, presented a published peer review journal article at the World Health Organization’s (WHO) International Water Conference in the spring of 2008. In his materials, Dr. Sobsey ranks BioSand filter technology (HydrAid®) as the leading technology when compared against the four other water technologies recognized by the WHO. This finding effectively supports HydrAid™ BioSand filters as the leading point-of-use technology. Sobsey, Mark, et al. “Point of Use Household Drinking Water Filtration: A Practical, Effective Solution for Providing Sustained Access to Safe Drinking Water in the Developing World”. Environmental Science & Technology, 24 Mar. 2008.
- UNICEF research - Technology Recognition. In the spring of 2008, UNICEF recognized and recommended BioSand point-of-use filtering technology to its field offices globally. This creates a potential global market opportunity for HydrAid® with existing UN funding.
- HydrAid® Product Efficacy - At the Thirsting to Serve Rotary water conference in 2009, Dr. Mark Sobsey released the preliminary data for the Cambodia and Ghana health impact studies showing a 60% and 62% respectively diarrheal reduction for families using HydrAid™ filters. Preliminary data expected to be published in mid 2010.



Ordering Information

- Single Complete Filter
- Single Sample Filter does not include filtration media
- Standard Pallet of 15 complete filters

To speak to a representative or to place an order, use the contact information below.



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