



**BioSand Water Filter**  
Manufactured by Cascade Engineering

## +The Problem

**UNSAFE WATER AFFECTS MORE PEOPLE THAN AIDS AND CANCER COMBINED.**

At least 4 million people worldwide die each year from drinking unsafe water. There are many diseases tragically taking lives around the world on a daily basis, but this is one epidemic that can be solved. And now it has.

## The Solution +

**ONE FILTER IS SAVING LIVES. YOU CAN HELP SAVE LIVES.**

THE HYDRAID® BIOSAND WATER FILTER REDUCES THE LEADING CAUSES OF DEATH AND DISEASE IN THE DEVELOPING WORLD.

It reduces parasites, bacteria, and viruses from contaminated water, making it safe to drink. This is the first point-of-use technology of its kind that is designed to deliver safe water to a family for more than 10 years, with proper use.



## HYDRAID® FILTER FACTS AND ADVANTAGES

- Flow rate 0.8 liters per minute
- Assembly time: 30 minutes (one person)
- Prep time: Surface biological layer forms naturally in about 2 weeks
- Low maintenance: can be cleaned in place; no mechanical parts
- Lightweight: 8 pounds (vs 300+ pounds for traditional concrete solutions)
- Easy to use: installed where it'll be used, high-volume, high-flow rate
- Flexible: operated on demand, no electricity
- Removes 99% - 99.999% of deadly parasites immediately
- Can be gifted via individual donations, group efforts, or corporate sponsorships
- Removes 95% - 99.9% of bacteria and 80% - 99.9% viruses with fully formed biolayer
- Dramatically reduces diarrhea and skin and urinary tract infections

go online to [www.hydrAid.org](http://www.hydrAid.org)



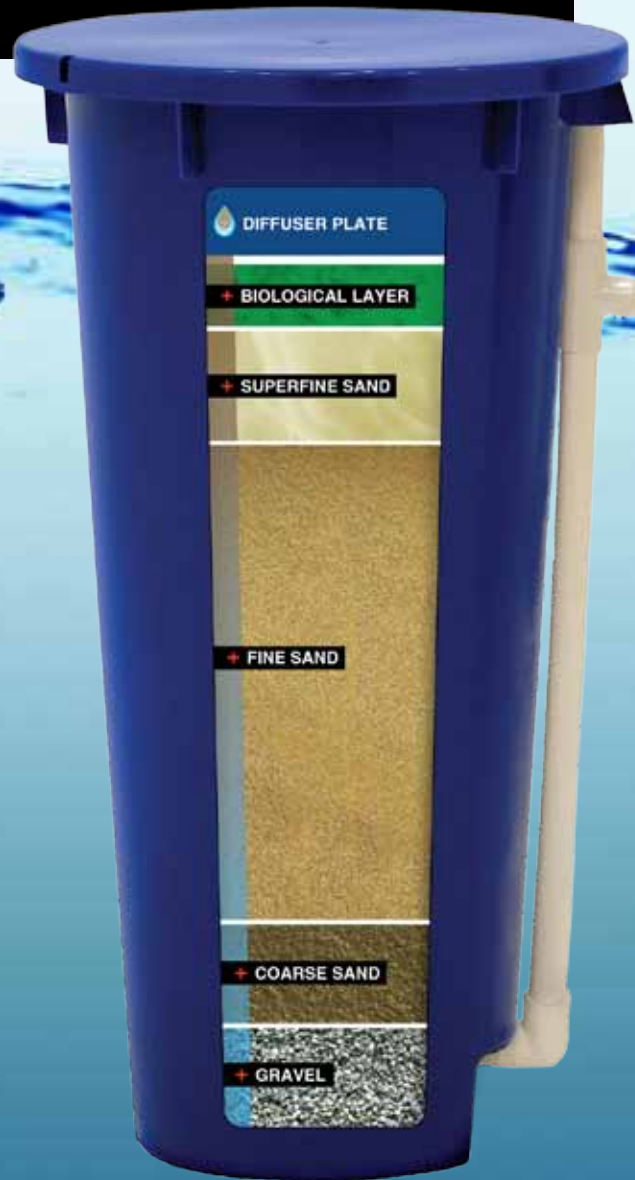
# HOW IT WORKS

**+** SO SIMPLE. WATER GOES INTO THE FILTER AND COMES OUT SAFE.

The HydrAid® filter can meet all of a family's water needs, including drinking, bathing and washing. Previously used BioSand Water Filter designs have used manual concrete construction techniques that resulted in a heavy 300-pound end product that was difficult to transport, inconsistent in quality and incompatible to scale for market needs. In contrast, our HydrAid® filter weighs just 8 pounds, is easily transported in large quantities, and is inexpensive and scalable.

The HydrAid® BioSand Water Filter encloses layers of sand, gravel and a biological surface layer that consume pathogens to clean the water. Here's how:

1. The water is poured into the top of the HydrAid® filter as needed.
2. It makes its way through a diffuser and the biological layer, then down through layers of sand and gravel. The biological surface layer is what consumes pathogens to clean the water.
3. As the water collects at the base of the filter, the water flows by gravity out of the filter through plastic piping attached at the unit's exterior.



## PUT IT TO WORK THE POWER OF PARTNERSHIP TOUCHING THE WORLD.

Here's how it's happening:

- |                                |                              |                            |  |
|--------------------------------|------------------------------|----------------------------|--|
| + Triple Quest                 | + Thirsting to Serve         | + CARE                     | + Proyecto Aldea Global                          |
| + WK Kellogg Foundation        | + Rotary District 6290 et al | + Save the Children        | + Aqua Para Pueblo                               |
| + Cascade Engineering          | + ADRA                       | + Honduras Gov. (FHIS)     | + Honduran Coffee Growers Association (APROCAFE) |
| + University of North Carolina | + World Vision               | + Catholic Relief Services | + More...  |
| + DOW Chemical Company         | + Samaritan's Purse          | + Plan                     |  |
|                                |                              | + HAGAR                    |  |



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