

# SAFE WATER *Solutions*



OPERATION | **BLESSING**  
INTERNATIONAL



**O**peration Blessing International is one of the top rated charities in America, providing humanitarian aid programs for safe water, disaster relief, medical aid and food security in 37 countries around the world. OBI's multifold approach to providing safe water solutions worldwide includes filtration, chlorination and disinfection systems, community water systems, deep water wells, desalination and catchment systems.

For over 15 years, OBI has been installing water wells globally, and in a typical year, provides safe water to nearly 395K people through more than 1,250 wells. Yet as aquifers and surface water become increasingly contaminated, OBI is significantly expanding efforts to find and implement new, innovative ways to disinfect and make water safe to drink.



*Pictured above are four San-6 chlorine generators that produce enough food-grade chlorine (sodium hypochlorite) to disinfect over 1.2 million gallons of water each day.*



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# SAFE WATER *Solutions:*

Operation Blessing International's  
Multifold Approach to Safe Water

## Rural Community Water Systems



In many rural communities throughout Latin America, water sources may be available but they are not safe to drink from and are often difficult to access. OBI constructs concrete catchment systems—or reservoir tanks—to collect source water, applies purification techniques, and then constructs a network of underground PVC pipes to plumb the water directly to village homes, giving residents safe access to clean water.

## Safe Water Testing & Training



OBI now has a full time water specialist on staff visiting all of our international operations to conduct water testing clinics and to familiarize indigenous Operation Blessing teams in the use of equipment in OBI's ever-expanding Safe Water Toolkit.



## Disaster Relief & Recovery



Natural disasters create safe water shortages. OBI moves fast to bring expertise and equipment to provide emergency water relief for victims. When the crisis passes, Operation Blessing trains locals in the proper operation of the equipment and then what started as a relief effort, turns into long term recovery solutions.



## Chlorine Manufacturing and Disinfection Systems

In Africa, Nepal, Philippines, Haiti and throughout Latin America, OBI is utilizing Sanilec-6 devices to manufacture chlorine for surface disinfection as well as making bad water safe. One unit currently services the largest hospital in Juba, South Sudan. Another larger system, installed by OBI at Haiti's newest and largest hospital in Mirebalais, processes over 1 million gallons a week. In over 20 countries, we have utilized Water Missions International (WMI) units during disasters, each unit capable of purifying 600 gallons of water an hour. OBI also distributes handheld, solar-powered H<sub>2</sub>O units.



## Desalination

Operation Blessing is now partnering with Parker, one of the world's largest manufacturers of water processing equipment. Parker provides desalination equipment for all of the U.S. Navy ships as well as the offshore oil industry. A Parker reverse osmosis desalination system is being installed on an OBI school site on the shores of Haiti's largest lake. The lake water is brackish and useless for drinking or agriculture.

OBI's new partnership with Parker will help to change that for countless Haitian people.



## H2gO Purifier

In partnership with Aqua Research, OBI is utilizing the H2gO Purifier, a handheld purification tool that is powered by a rechargeable battery as well as backup solar panel. H2gO is a low cost, easy to use device able to generate disinfectant within minutes to treat up to 20 liters of water at a time. The purifier converts common salt and water into a powerful sterilizing solution and has no maintenance cost or resupply logistics.



## PackH2O

In developing countries, women and children carry water an average of 3 1/2 miles a day, often painfully balancing the heavy buckets on their heads. In partnership with GREIF, OBI has distributed PackH2O water backpacks in 11 countries to communities that don't have convenient access to a water source. The packs safely position the water's weight on the wearer's back, not only easing the burden of carrying water, but also providing a sanitary alternative to carrying the water in toxic-laden plastic jugs and other containers used by villagers. OBI also deployed PackH2O backpacks in the U.S. during the 2015 South Carolina floods.

## H2OB Oasis

OBI, working with Aqua Research, has developed a low cost, ultrafilter-based, water treatment storage and container system that can be used in low income households and disaster relief settings. The 20 liter, plastic container will incorporate an ultrafilter (removes all classes of microorganisms, including viruses, bacteria and protozoa) and a small hand-operated manual air pump that provides the low pressure needed to push the raw water (river, lake, stream, well, etc.) through the filter.



## Tabletop Chlorine Generator

OBI has cooperated with PATH for several years in product discussions and field testing of a revolutionary new product just released by Mountain Safety Research (MSR). Operation Blessing is already using this device in Cuba and is excited about it. The SE-200 runs off a 12-volt battery or conventional wall plug and in five minutes produces enough chlorine to disinfect 50 gallons of water. This device is ideal for small communities, schools and orphanages. It fits nicely in the OBI toolbox of Safe Water Solutions; bigger than the H2gO and smaller than the San-6.

## Operation Blessing International

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