

CLEARWATER

DISTRIBUTORS, LLC



A sustainable solution to the potable water crisis

Committed to providing safe drinking water to at-risk populations.

Throughout the world, inadequate water supply is a daily reality for more than 1 billion people. Governments simply do not have the capacity to meet the water quantity and quality needs of their populations. A sustainable and complete water solution is required. But, how can the contaminated

water dilemma be effectively resolved and who has the capability to solve this complex problem? This brochure outlines the ClearWater System, the effective, sustainable and innovative first-response solution to water-related emergencies.

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Statistics

Clean, safe drinking water is essential for human health and wellbeing.

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CWD Water System

Learn more about this revolutionary solution to the water crisis.

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Global Water Crisis

Taking a closer look at the water crisis in countries across the world.

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STATS

1.1 billion people (1/6 of the world) lack access to clean water

2.6 billion people (40% of the world) lack adequate sanitation and toilets

1.5 billion people suffer from water borne parasites (worms, protozoa, bacteria)

6,000 children die daily from water borne disease. In the last 10 years more kids have died from diarrhea diseases than all people killed in armed conflict since WWII

30,000 people die daily from drinking bad water

Half of the world's hospital beds are filled with people suffering from a water-related disease

Background: Global Water Crisis Causes Sickness, Poverty

At any given time, half of the world's hospital beds are occupied by patients suffering from a water-related disease.

Nearly 90% of all diseases in the world are caused by unsafe drinking water, inadequate sanitation, and poor hygiene. Every year, there are 4 billion cases of diarrhea as a direct result of contaminated water; this leads to more than 2.2 million deaths each year—the equivalent of 120 school buses crashing every day.

The weakest members of communities are the most vulnerable; every day water-related diseases claim the lives of 5,000 children under the age of five.

The daily struggle in search of water is a burden that is almost universally borne by women and children, which seriously limits the time dedicated to income generating activities, personal development, and most importantly, education. The statistics indicate a two-way relationship between extreme poverty and lack of access to safe water.

At ClearWater, we are addressing this most basic of needs by helping deprived communities acquire safe, clean water with mobile water purification systems. Through our program, you can help ensure the country's long-term water security now, and during the next natural disaster.





The CWD Water System

An innovative first-response solution to water-related emergencies

MISSION

To design and develop the highest quality and most cost effective Mobile Water Treatment Systems to sustain the lives and businesses of those impacted by any water crisis even in the public or private sectors.

DESCRIPTION

The system provides 40,000 gallons of clean, potable water a day to cities, towns, villages and remote areas. It is highly mobile and effective for both short and long-term deployments. It is mounted in a trailer and can be moved from location to location distributing packaged water and/or filling up portable containers, tanks or reservoirs. It can also be converted to a stationary unit and

operated at a single location. It requires only 30 minutes to set up and begin operation. It has a self-priming feed water pump, with a raft support unit for use in lakes, rivers, oceans or reservoirs. The on-board diesel powered generator with integrated fuel tank can power the system for 72 hours before refueling. All components can be easily serviced and maintained while the unit is deployed and in the trailer. The system can process virtually any source of water without having to identify the contaminants first.

TREATMENT

The system design considers four main groups of water pollutants; suspended material (turbidity), organics (volatile organic

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compounds, organic acids, biochemical organic compounds, and disinfection byproducts), inorganic compounds (dissolved minerals such as arsenic, lead, or nitrates), and bacteria (pathogens, viruses and parasites). There is post-treatment using ozone, ultra violet disinfection and micron filtration to complete the process.

DISTRIBUTION

The system has three water distribution methods that can be used independently or in any combination.

Containers can be filled at an integrated filling station, which also has the ability to sanitize those containers. The sanitizing station can also be used to clean medical equipment or any other items requiring bacteria control and elimination.

The second is an integrated machine which will form, fill and seal 1500 one-half liter bags of water per hour for off-line distribution. The bag size and volume can be changed infinitely.

The third is to simply attach a hose that can be used to fill a tanker or other high volume container.

OPERATIONS

The system comes with a touch screen for user-friendly operation. Once the system power is on, the touch screen directs untrained personnel through the right

sequence of operation tasks. In case of an operational mistake, the system protects itself, alerts the operator, and provides fixing instructions. The system also tests the quality of the output water, and ceases operation automatically if there is a quality issue. The system will not deliver water with a proper disinfection, filtration, organic removal or salt reduction.



The system will only deliver water that is properly disinfected, filtered or desalinated.



Water and sanitation problems have reached a boiling point

- Clean water is one of the absolute priorities during reconstruction after a natural disaster.
- Bottled water is not sustainable. The agencies providing water on behalf of government authorities are often stretched beyond their capacity and mandate.
- Access to appropriate sanitation is also a dignity and protection issue, particularly for women and children. Community participation is essential to identify ways to ensure that people feel safe when using sanitation facilities – toilets and showers – both at night and in the day.

The Many Faces of the Water Crisis

1.6 billion people live in regions with absolute water scarcity. By 2025 two-thirds of the world's population could be living under water stressed conditions.



Children in Burma are evacuated and without water when flash floods strike at night.



A girl in Laos walks three miles before school to fetch water from a distant well.



Impoverished slum dwellers in Haiti wash their clothes from the local river where their sewage is dumped.



Australians use more water than is replenished and increasing salinity in water is threatening agriculture.



Hurricane victims in New York find drinking water sources contaminated by floodwater and sewage.



Europeans worry about water quantity and quality as droughts strike Mediterranean countries.





Don't Just Take Our Word For It



Late energy analyst Matthew Simmons warned the water crisis was scarier than peak oil:

“As global population grows, water usage has to rise for sanitation, food production can happen.”

Canada's former Prime Minister Jean Chretien said it was impossible to overstate the magnitude of the crisis:

“The future political impact of water scarcity may be devastating.”



Why Work With ClearWater?

Shouldn't everyone have access to clean drinking water?
We need your help to make it happen.

With your help, we can put an end to the world water crisis and save the lives of millions who are dying of water-related diseases. Everyone has the right to the most fundamental building block of life itself—water.

We hope you'll join us in this noble cause.

“Water is fundamental for life and health. The human right to water is indispensable for leading a healthy life and human dignity. It is a prerequisite to the realization of all other human rights.”

- **The United Nations Committee for Economic, Cultural and Social Rights**



For more information, contact us at:
ClearWater Distributors, LLC | P: 602.867.2846 | F: 602.384.0009 |
www.clearwater-distributors.com