Over two thirds of the Earth is covered by water. Unfortunately, most of it is not suitable for drinking. Until now.
Introducing the PureSafe Water Station™

by WaterChef

It turns “bathing grade” water, into clean, safe drinking water for brackish water, even sea water as little as 3.5 cents per gallon.
INLET CONNECTION WITH MACROFILTER strain input water, removes large particulate and directs water into the system.

INLET PUMP maintains water pressure 40psi capacity throughout the system.

PRE-DEPTH MEDIA FILTER is a multi-media mixed bed filter that removes organics, odors, most soluble pollutants, heavy metals, chlorine, bacteria, algae and fungi. This filter is microprocessor-controlled for automatic regeneration in a periodic operation to extend its life. A pressure gauge on the control panel indicates when maintenance is necessary.

OZONE GENERATOR provides further sterilization by employing a rich oxygen source that oxidizes and kills any remaining microorganisms and organics. Ozone destroys bacteria and viruses, oxidizes heavy metals and eliminates unpleasant odors. The ozone in the system is created via a corona arc across an air stream. The ozone-laden air is then injected via a spray nozzle into the water. The ozone converts back to oxygen after only a few minutes. Routine maintenance consists of replacing the air intake filter as needed.

OZONE CONTACT TANK stores water that has already been ozonated.

PROCESS PUMP ensures optimal pressure in the system at all times.

POST-DEPTH MEDIA FILTER continues the purification process started by the pre-depth media filter, further decontaminating water before final stages of processing. A second pressure gauge on the control panel ensures proper pressure level for operation.

ULTRAVIOLET TREATMENT sterilizes water by eradicating any microorganisms, viruses and pathogenic bacteria that pass through the multi-media filters. Maintenance primarily consists of changing a UV lamp.

KDF/CARBON BED FILTER contains a KDF process media that is made of a copper and zinc alloy. It safely oxidizes and neutralizes chlorine, biological, inorganic and metallic contaminants (including lead and fluoride) through natural catalytic action. Contaminants become neutralized and attached to KDF through a micro-electric charge generated by the copper/zinc and water. The filter prevents bacteria growth, while the carbon component effectively removes organic compounds and improves water taste and odor for dispensing.

MIXER includes a parallel piping circuit that sends ozonated (ozonated treated) water to bottle washing stations. No maintenance is required.

BOTTLE WASHING STATIONS typically with three bottle washing dispenser heads, uses ozonated water from the mixer to thoroughly clean bottles with nominal 1 to 2.5-inch diameter openings. Bottles are loaded onto the washing station and the cleansing action is initiated automatically or by operator pushbutton (depending on the model). Bottles are washed, rinsed and drained all within a cycle lasting from 10 to 30 seconds, at which time, they are ready for filling with purified water at the dispensing station. Effluent (drained water) is sent to a sewer for post treatment to comply with local regulations. Routine maintenance involves periodic cleaning of the work station components.

DISPENSING STATIONS typically with four dispensing heads, feature flow-adjusting valves that help regulate a smooth, steady flow of water into clean bottles. The heads are arranged to expedite filling and keep traffic moving. Routine maintenance involves periodic cleaning of the work station components.

PURESafe WATER STATION™
Good, clean, safe drinking water. It's something most of us take for granted. But for a large portion of the world (over 1 billion people and growing every day), it can mean the difference between thriving and surviving, if not life and death.

It is estimated that the amount of potable water consumed by humans has increased almost 800% during the last century, and the World Bank predicts that we're headed towards a severe global shortage by the year 2025.
THE EMERGING PROBLEM

Nowhere is drinking water more of a problem than in developing nations and emerging economies. Faced with short or dwindling supplies, they're turning to unsafe, unreliable sources of water that threaten their population's very health and well-being.

Cholera, dysentery and a host of other infectious water-borne diseases are reaching near-epidemic proportions. Compounding matters, the lack of suitable drinking water is wreaking havoc on economic infrastructures.

In many places, good water means wealth, and the lack of it, relative poverty.

THE WATERCHEF SOLUTION

As a world leader in high-quality, low-cost water purification systems for the home as well as municipalities, government and private industry, WaterChef, Inc. (OTC-BB:WTER) has developed a unique and highly viable solution to the drinking water problem — the patent-pending PureSafe Water Station™.

Depending on the model, it can transform virtually any source of grey water ("bathing grade") from rivers, streams, lakes, even the ocean — quickly and easily into pure, safe drinkable water that meets U.S. Environmental Protection Agency (EPA) standards. And it accomplishes this far more cost-efficiently than any other system on the market — for as little as 3.5 cents per gailon!

In comparison, people in many parts of the world pay 08 to 25 cents a gallon for water.
SIMPLE ECONOMICS

Many developing countries, as well as private enterprises, have an urgent need for safe drinking water. But they cannot afford complex and expensive water treatment systems designed to treat "all" water. The fact is, less than 2% of the water consumed by a typical household or business is actually used for drinking and cooking. Therefore, the cost of building, maintaining and operating such a large infrastructure is fiscally unsound.

That's what makes the PureSafe Water Station by WaterChef such an attractive alternative. It can fill the drinking water needs of small populations, especially in "rural environments", without major construction or a big investment. It's ideal for communities, apartment complexes, commercial buildings and industry as well as relief efforts. What's more, the system can be up and running in a matter of days just about anywhere.

5,000 GALLONS PER DAY

The PureSafe Water Station is a turnkey system, which means you only have to add power (250V50HZ) and an available water supply to operate it.

It takes rough filtered water, and through a series of state-of-the-art refining and filtration processes and sub-systems, provides 10 to 12 gallons per minute (5,000 gallons per day) of good, clean, safe drinking water. That's enough to satisfy the daily requirements of 2,500 to 3,500 persons or 500 to 600 families.

In short, the PureSafe Water Station is the modern version of the "village well or watering hole". People come to it, rather than water being distributed to them. It's a vital place where people gather and commune to procure the very fluid of life. It can also be a solid entrepreneurial opportunity. As a "water store" or mini water utility, it can turn a tidy profit by providing drinkable water at far more reasonable prices than many people are used to paying.

Two fixed heads and two flexible hoses quickly and easily dispense clean, safe drinking water at four conveniently located filling stations.
PERMANENT YET PORTABLE

It's important to note that the PureSafe Water Station is a "permanent" solution to a drinking water problem. With replacement filters and proper maintenance, it can fill the drinking needs of a small population for many years to come. It's a highly dependable, easy-to-use and cost-efficient water source. Yet, the system is portable.

The unit ships complete in a standard container. And because it's turnkey and requires no distribution pipes, it can be transported to any location (via truck or helicopter) and put to immediate use. It can even be mounted on a flatbed, although the recommended installation is inside a building or enclosure. Its intended use is near or in a residential area.

COMPACT AND VERSATILE

The PureSafe Water Station is about the size of a small storage shed. It stands approximately 4 ft. (1.2m) wide x 7 ft. (2.1m) long x 6½ ft. (2m) high and weighs about 1,100 lbs. (500 kg) without water. That's remarkably compact for all that it does!

Each unit is typically configured to include three bottle washing stations (employing an ozonation system to thoroughly clean and disinfect/sanitize bottles) and four water dispensing locations which are optimally arranged to ensure smooth operation. For night use, internal and external lighting is provided. Plus, an optional standby power generator (gasoline-fired) is available where power outages are a concern.

Modular in design, the PureSafe Water Station can be easily modified with such optional capabilities as desalinization and oil separation to serve specific water needs.
BORN IN THE U.S.A.

Every part used in the PureSafe Water Station is a highly proven and reliable technology. The individual filtration devices have been used time and again in numerous applications worldwide to effectively and safely remove all kinds of water impurities, contaminants, odors and tastes — from inorganic and organic chemicals to bacteria and microbial pathogens to pesticides and herbicides.

Constructed of sturdy, weather-resistant fiberglass, aluminum and steel, each unit is built and tested with the strictest quality controls at the company’s factory in Havre, Montana or other contracted manufacturing sites around the United States. Once complete, it is delivered directly to any location in the world for immediate installation and use.

Since the PureSafe Water Station is a self-contained, turnkey system, it is shipped complete with easily hooked up electrical and plumbing lines (remember, no distribution system is required). Plus, a set of spare filters (micronfilter, mixed media, carbon block, etc.) is included.

COMPLETE TRAINING

WaterChef provides factory training and optional on-site training which covers all filter changes and maintenance required to keep the system running at peak quality and efficiency. The PureSafe Water Station is extremely easy to operate and maintain. All procedures are also detailed in an easy-to-understand manual included with each unit.

In addition, as a special safeguard to ensure the consistent quality of the water dispensed, the system is equipped with an automatic shut-off device that activates when filters need to be changed.

A QUICK PAYBACK

In many applications, the PureSafe Water Station can pay for itself in as little as three years. This includes the cost of replacement filters, the power needed to run the unit, plus the salaries of two operators who must be in attendance at all hours of operation. That’s truly amazing!

The PureSafe Water Station by WaterChef. Ultra reliable, cost-effective and easy to operate, it’s the drinking water solution that people all over the world are thirsting for.
KEY FEATURES

Proprietary, patent-pending technology; manufactured and tested in the U.S.A.

Permanent, long-term solution to drinking water problems with no distribution pipes required

Converts "bathing grade" water into pure drinking water that meets U.S. EPA standards

Purifies and dispenses up to 5,000 gallons per day (enough for 2,500 to 3,500 people)

Provides safe, potable water for as little as 3.5 cents per gallon (compared to 08 - 25 cents for other systems)

Ideal for rural areas, municipalities, governments, industry, relief efforts, etc.

Turnkey unit ships complete (with easy connecting power and plumbing lines) in a standard shipping container

Easily transportable to other locations via truck or helicopter

Sturdy, weather-resistant fiberglass, aluminum and steel construction with internal and external lighting

Can be configured for special water needs such as desalinization, oil separation, etc.

Fast, easy installation and maintenance with 2-day on-site training available

Can pay for itself - including power, filter changes and maintenance staff - in as little as three years

SERVES UP TO 3,500 PEOPLE PER DAY

MEETS U.S. EPA QUALITY STANDARDS FOR POTABLE WATER