



International Water Company

Water for Life. Water for the World.

Who We Are

International Water Company was formed with one singular purpose: to provide clean drinking water solutions to improve the lives of individuals where potable water is problematic or non-existent. The idea for the company came in the wake of the devastating Earthquake in Haiti in 2010. Tens of thousands of people were adversely affected by the lack of access to potable water. Furthermore, the solutions available to provide drinking water were inefficient, difficult to operate, and ill-suited for extreme conditions. The founders of IWC saw how badly a solution was needed, and invested millions of dollars in research and development to design an easy to use water purification system to address that global need. We believe our easily transportable, mobile water purification system is the most sustainable, rugged, reliable, and easy to operate water purification system available on the market today.

What We Do

International Water Company manufactures water purification solutions for both mobile and stationary applications for municipal supply, defense, strategic, emergency, and disaster relief. IWC's products are environmentally friendly and engineered from a "trenches up" position rather than a "technology down" mindset. Consequently, IWC's products are field tested and proven. IWC is a registered federal contractor, currently working on contracts with the U.S. Department of Defense, major defense contractors, and various entities in the public and private sector.

IWC has distributors and strategic partners in several countries throughout the world and continues to expand its network of partners. IWC currently has Mobile Water Purification Systems in the Peoples Republic of China, the United Republic of Tanzania, and the Republic of Ecuador.

Experience

The knowledge gained from working on government contracts and exporting to different parts of the world has been very beneficial in the development of our latest product – the MWPS-4000. Much of the automation used in our new system came from working on a U.S. Department of Defense project for gray water reuse. We gained invaluable knowledge distributing water in Ecuador with our prior system, the MWPS-15, after the devastating earthquakes in April, 2016. Embedded with the Ecuadorian Army Corp of Engineers near the epicenter of the earthquake, the MWPS-15 provided over 1 million gallons of purified drinking water in three different municipalities, validating the durability and reliability of the system.



Solar Array

MWPS-4000 Features

The MWPS-4000 is the latest generation of IWC's water purification systems. Based on years of research and development, experience in the field, and working together with the U.S. Department of Defense and other international government entities, IWC has developed one of the most sophisticated water purification system on the market for disaster relief, emergency response, and/or supplying municipal potable water without the need for fuel, chemicals, or disposable replacement filter cartridges.

- System is enclosed in a sturdy, durable, ISO certified ocean shipping container for easy transport via trailer, tractor-trailer or cargo ship
- System can be deployed and pumping water in less than 15 minutes with full setup in less than 3 hours
- All of the components of the MWPS-4000 are transported within the box which can be secured with a heavy duty lock
- Extensive training provided with purchase of system
- Rugged, one horsepower, self-priming, submersible pump can be used in a variety of water sources
- Ultrafiltration provides low turbidity water and a barrier to bacteria, even in changing water conditions
- Disinfects water without the use of chemicals
- On-board electronic chlorine dosing pump for providing residual post-treatment disinfection
- Parallel treatment systems allow for continuous production during backwash and maintenance activities
- Automated backwash function ensures timely cleaning, which extends filter life and reduces labor costs
- Factory set backwash intervals may be re-programmed according to source water quality
- No replaceable filter cartridges; membranes can be used for several years with minimal maintenance
- Polishing filters can be customized based on specific water challenges
- Fully integrated hybrid power management system allows for use of included solar and wind power, as well as on-board generator and AC or DC external line power.
- On-board, 3 kilowatt generator automatically starts to power and charge the system when it detects low battery levels.
- Electronic water conditioners provide:
 - Corrosion resistance
 - Scale inhibition
 - In-line coagulation, which increases filter efficiency and decreases filter fouling
- UV final stage disinfection effective against bacteria, viruses, and protozoa
- Removes arsenic III/V, lead, mercury, chromium VI, copper and uranium



MWPS-4000

Awards, Recognition, and Achievements

International Water Company has been recognized by many manufacturing and business organizations. The following are some of the accomplishments:

- October, 2016** Finalist for "Excellence in International Trade" by MANTEC
- June, 2016** Letter of recommendation from the Senior Captain of the Logistics Command Post in San Vicente, Ecuador from the Corp of Engineers (COTOPAXI) for the charitable distribution of 86,000 liters of water per day after the earthquake on April 16, 2016.
- June, 2016** Letter of recommendation from the mayor of the city of Bahia de Caraquez, Ecuador for the charitable distribution of over one million gallons of water from April 22, to June 15, 2016 after the earthquake on April 16, 2016.
- August, 2014** Finalist for "Emerging Business of the Year" by the Central Pennsylvania Business Journal
- July, 2014** Successful application to TROPEC and Oak Ridge National Laboratory for the MWPS-15's suitability for emergency management utilization by U.S. Pacific Command (PACOM)
- June, 2014** Finalist for the Pennsylvania Governor's ImPact award in the Export category
- January, 2014** Awarded funding from Ben Franklin Technology Partners technology competition
- December, 2011** Cooperative Research and Development Agreement (CRADA) with the U.S. Dept. of Homeland Security

Control Panel and PLC on MWPS-4000



Automated Backwash Valves on MWPS-4000

MWPS-4000 Specifications*

Effluent Output ≈ 4,000 liters per hour or 96,000 liters per day**

Dimensions:

Length.....2.44 meters
Width.....1.46 meters
Height.....2.44 meters

Dry Weight.....1,882 kilograms
Wet Weight.....2,257 kilograms
Filtration.....0.02 microns (20 Nanometers)
Solar Output.....2,000 Watts
Wind Generator Output.....1,600 Watts
Generator Output.....3,000 Watts
12 month limited warranty

* Specifications are subject to change without notice.

**Based on continuous supply of power. Water flow may vary based on source water quality.

MWPS-4000 Safety Features

- Redundant overpressure protection ensures that the system does not exceed normal operating water pressure
- Smart battery charging system monitors batteries to protect from overcharging
- Smart dosing regulates chlorine dosing (if used) based on rate of water flow.
- National Sanitation Foundation certified class A ultraviolet lamps provide several levels of safety. Lamps will automatically stop flow of water if:
 - Power to UV is lost
 - Water transmittance becomes too low
 - Lamp age becomes too advanced
 - UV output becomes too low



UV Lights on the MWPS-4000



Chlorine Dosing Pump on MWPS-4000

Additional Acclaims and Associations



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