



Introduces

the

Hurricane

Rapid Response Water
Purification System

Global Pure Water

503-949-7067/503-949-7068

www.globalpurewater.com

Hurricane Inspiration

1996-1997 Papua New Guinea. El Nino redirected the water from the South-Western Pacific to the Northwest U.S. causing floods. Papua New Guinea only received 5% of their normal rainfall (200") creating a severe drought. The people had to rely on streams instead of collected rain water. Few had wells.

The stream near Rabi Village was such a stream and became infected with cholera. The inventor spent many days bringing people to the hospital. One particular trip, he took an old man and his 4 year old twin granddaughters. Cholera is most dangerous to the young and old. The grandfather died in route. He still doesn't know what became of the girls, but they were nearly lifeless as he carried them into the hospital.

The Hurricane is a direct result of those four year old twins.

Purpose of the Hurricane

The purpose of the Hurricane is to provide clean, safe water to any areas that are uncertain about water quality to include any non-saline water source. All materials in the treatment process use 100% NSF approved materials.

The standard unit is capable of removing:

E. Coli, Vibrio Cholera >99.99%

Shigella Bacteria, Salmonella Typhi, Klebsiella Terrigena,
Cryptosporidium, Giardia Lamblia >99.999%

Activated Carbon filters are also available to remove or reduce:

Pesticides, Herbicides, Phenolic Compounds, Polyaromatic Hydrocarbons, Chloro-organics, Trihalomethanes, Chlorine, Arsenic, Lead and other heavy metals

Particulate/Turbidity Removal Efficiencies:

Filter	Flow at 50 PSID		Particles/200 ml (microns)			
	Gpm	Port	0.3-0.5	0.5-0.6	0.6-0.8	0.8-1.0
Sterasyll IBR ID 12232-1	2.25	Raw	145431	59956	51543	15066
		Finish	12833	351	101	12
		Efficiency	91.2%	99.4%	99.8%	99.9%
CeraCarb IBR ID 12232-3	1.6	Raw	241425	93886	79443	23683
		Finish	199	57	44	<1
		Efficiency	99.9%	99.9%	99.9%	>99.99%

Removal Efficiency Tests Conducted by IBR Laboratories, Grass Lake, MI 49240

Flow rates conducted for Hurricane conducted by Global Pure Water

Virus and further bacterial protection can be obtained with the addition of chlorine to the finish water.

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www.globalpurewater.com

EXAMPLE

Greater Portland area

- Population 2,226,000
- Area 6,700 square miles

In the event of a disaster, FEMA and WHO recommend 1 gallon of water per person per day. Assuming a 2% fatality rate, 2,180,000 gallons of water will be required each day.

Gathering points in case of disaster

- Medical Centers and Hospitals 8,263
- Schools 22,139
- Fire Departments 1,419
- Police Stations 1,128
- Rest Homes 5,145

Water system vulnerabilities to name a few

- Power
- Other Infrastructure
 - Distribution system piping
 - Roads and Transportation
- Qualified Personnel
- System Equipment and Facilities

When disaster strikes, a community is immediately in need of essential recovery resources – water, food and medical supplies – that are critical to saving lives and getting the community back to normal as quickly as possible. Whether an earthquake, a tornado, a flood or a manmade event, the biggest challenges involve getting the right resources to the right place at the right time. Water and medical supplies are of extreme importance in mitigating the immediate circumstances for the injured. Long-term supplies of water and food are required to restore a community to operational status.

Disaster Survivability

In the event of a disaster, equipment is worthless if it breaks before or during a deployment. It not only needs to survive the disaster, it needs to be operable when transported and used (even in the remotest of areas).

- Each Starlight case is made in the USA and backed with an Unconditional Lifetime Warranty.
- Further reinforcement is placed inside to protect the filter system for protection from compression.
- Flexible tubing is used to give further durability to its internal components.
- Special considerations were given to ensure corrosion protection due to water and chemicals.

Easy to Transport

- The weight of the Hurricane system is less than 50 pounds
- Dimensions: 43"x16"x7"
- Built-in handles and wheels further increase the ease of transport by an average individual.
- Hurricanes are stackable with a contoured interlocking design for storage and/or transport.

Simple to Set-up and use

- Simple to follow instructions so anyone can set up and use
- Multiple power options including: internal battery, automobile, generator, solar, or wind.
- As the power is only used to operate the pump, pressurized systems require no outside power.
- Long life filters
 - Sediment filters are washable 3-4 times by rapidly shaking them in the raw water.
 - Ceramic finish filters are cleanable 50-60 times using the included scotch pad or brush.

High volume at low cost

- At 2.25 gallons per minute, a single unit will produce over 130 gallons per hour (emergency water for over 100 people every hour)
- Approximate cost to clean water equals less than 1 cent per gallon with minimal transportation costs.

Other Uses

- Remote camps or teams
- Contamination clean-up sites
- Wash stations for events
- Point of use treatment for aesthetic issues
- Drawn off of a fire tender or water buffalo
- Can be connected to a fire hydrant or equivalent water source

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Price Sheet

Hurricane Portable Water Purification System

\$2495.00

The Global Pure Water™ "Hurricane" Rapid Response water purification system is perfect for easy deployment to areas with uncertain power capabilities. The internal 12 volt battery will pump about 2.25 gallons (8.5 liters) per minute and can be charged using car, boat, plane, solar or generator power sources.

Already have a well or other untrustworthy pressurized system? Just connect using the supplied drinking water quality garden hose or 1/2" NPT fittings and you don't even need electricity! They even hook onto a fire tender with ease to supply water virtually anywhere and from just about any water source.

In a disaster, even the simplest of things can go wrong, and this system has you covered. No light bulbs to break or burn out. No chemicals to spill. If the ceramic filters clog, just clean them with a brush or Scotch pad. It simply works - every time. Each Hurricane Water Purification system uses two pre-filters and two of choice of the secondary filters (listed below).

Primary Pre-Filters

\$6.00

The pre-filters are 5 micron melt blown polypropylene. They are a very inexpensive way to reduce clogging and maximize the usable life of the silver impregnated ceramic secondary filters. The pre-filters can be cleaned by shaking them in a bucket of water, spray off with a hose, clean with a brush or Scotch pad.

Secondary Filter Options

Sterasyll Ceramic Filter

\$22.00

Composition of the ceramic filter contains pure silver. This silver is a specially formulated self-sterilizing (bacteriostatic) agent. The result is that bacterial growth is prevented from occurring within the ceramic element (which is possible with the other ceramic filter elements.) More importantly, bacterial "grow-through" is eliminated. This silver content is about 0.07%, which is well within the allowable levels recommended by the World Health Organization. Because of the silver, the filter elements do not require sterilization after cleaning. If the ceramic filters clog, just clean them with a brush or Scotch pad.

AquaCera Carb

\$53.00

Using silver, ceramics, and powdered activated carbon, these filters are manufactured to remove pathenogenic bacteria and cysts. They also feature exceptional removal capabilities for chemicals and heavy metals. The pore size is carefully controlled to have high removal efficiencies for suspended matter larger than 0.3 microns. Composition of the ceramic filter contains pure silver. This silver is a specially formulated self-sterilizing (bacteriostatic) agent. The result is that bacterial growth is prevented from occurring within the ceramic element (which is possible with the other ceramic filter elements.) More importantly, bacterial "grow-through" is eliminated. This silver content is about 0.07%, which is well within the allowable levels recommended by the World Health Organization. Because of the silver, the filter elements do not require sterilization after cleaning. If the ceramic filters clog, just clean them with a brush or Scotch pad.

110 volt AC Charger/Adapter

\$39.00

Charge your Hurricane water purification system using any standard 110 volt outlet with this handy AC/DC power adapter.

Replacement Deep Cycle Battery

\$59.00

Deep cycle AGM, maintenance free, sealed lead acid rechargeable battery for the Hurricane Water Purification System. Use only Global Pure Water certified batteries to ensure the best performance and compatibility.

Solar Charging Kit

\$1,149.00

The Global Pure Water Solar Charging kit comes with two 25 watt foldable solar panels and cables to charge your Hurricane Water Purification System. Super light at under 4 pounds (2 kg) these flexible panels are easy to pack and easy to use.

Solar power varies widely with sunshine conditions. Under very sunny conditions these panels will allow the Hurricane to run up to 43 minutes out of each hour producing 98 gallons (370 liters). With 6 hours of sunlight, that is over ten 55 gallon drums of water! In our testing, under moderate clouds, the solar panels charged quickly enough to run the system for 10 minutes, producing 23 gallons each hour.

***Estimated cost for 1 (one) complete Hurricane water system is only \$2,650!**

Global Pure Water
503-949-7067/503-949-7068
www.globalpurewater.com



**TILLAMOOK COUNTY
DIVISION OF EMERGENCY MANAGEMENT**
5995 Long Prairie Road
Tillamook, OR 97141
Voice (503) 842-3412
Fax (503) 815-3195



Gordon McCraw
Director,
Emergency Management

March 15, 2013

To Whom It May Concern

The former Oregon Emergency Management Director once called Tillamook County his most disaster rich county in the State. Because of this we are continually looking to improve our resiliency to these disasters which includes, "The Big One", a Cascadia Subduction Zone Earthquake which could be as bad the one seen by Japan in 2011. This disaster has the potential to damage our water supply system for an extended period of time. We have been looking at water supply options, which include the Global Pure Water's Hurricane Rapid Response Water Purification System. I have seen the system demonstrated several times and it appears to be well built, very portable, easy to set up and operate. This system looks to be an effective tool that could be used to provide emergency water for a local community during a catastrophic event. Several departments in the county are currently considering the purchase of one of these systems, including my own. I would recommend any agency looking for a relatively inexpensive way to provide water to their community during such an event, look at this easy to operate, effective system as a way to accomplish this.

Thank you,

A handwritten signature in cursive script, appearing to read "Gordon McCraw".

Gordon McCraw,
Emergency Management Director
Tillamook County, Oregon
503-842-3412

Mercy Medical Center

March 18, 2013

To whom it may concern:

I have been a part of the Emergency Preparedness team at Mercy Medical Center for the past 7 years. During this time, I have reviewed and assessed various water supply apparatuses with little confidence in any of them to provide the required cleanliness and volume needed to sustain acceptable levels of operation.

When I was invited to attend the demonstration by Global Pure Water, I was skeptical. Once the demonstration began, I was extremely impressed with the engineering put into this unit. It was obvious the designers had invested significant time in reviewing the environment these water supplies would be operating under.

I offer my recommendation of these units with respect to the ease of operation, effective operating parameters, and cost.

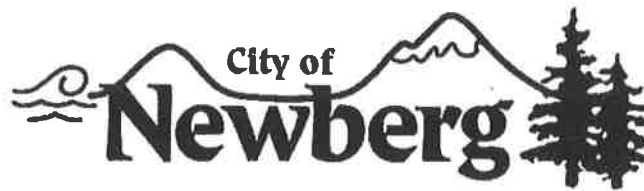
The confidence I have in these units prompted me to place an order for one unit and will I be placing an order for a second unit with the new fiscal year.

Respectfully,



Nathan Arrowood
Plant Operations Manager
Mercy Medical Center
Roseburg, OR
541-580-4771

Newberg City Hall
503.537.1240
www.newbergoregon.gov



Public Works Department
Maintenance Division
503.537.1234

PUBLIC WORKS DEPARTMENT

500 W. Third Street • Newberg, Oregon 97132 • 503.537.1234 • Fax 503.554.9411

November 28, 2012

To Whom It May Concern:

Global Pure Water's Hurricane Rapid Response Water Purification System passed water sampling tests from the raw water sources in the City of Newberg, the Willamette River and Hess Creek. Both sources are heavily influenced by agriculture, industry, and dairy. After sampling with the AquaCera Carb filters, the water system removed both samples of total coliform and e-coli to a non-detect level. The system is well built, easy to handle, easy to store, requires little maintenance and can fit into virtually any budget or emergency preparedness grant process. I would recommend this system to anyone looking for an inexpensive, easy to operate, and effective tool that can be used to provide emergency water for a community.

A handwritten signature in black ink, appearing to read "Russ Thomas".

Russ Thomas,
Superintendent of Maintenance
City of Newberg, Oregon
503-537-1233

City of Newberg
 Operations Division
 2301 Wynooski Rd.
 Newberg, OR 97132
 Ph: 503-537-1239
 Fax: 503-537-1288

DHS
MICROBIOLOGICAL ANALYSIS
 Public Water Supplies
 Drinking Water Program

Alexin Analytical Labs
 13035 SW Pacific Hwy.
 Tigard, OR 97223
 503-639-9311

City of Newberg Water District - ID # 4100557

OR100013

Date	Time	Sample Group #1 Address - (bottle #)	Sample Type* R / P* / S	Cl2 (mg/L)	* if P Date of Initial positive	* if P Sample Location U / S / D	Laboratory Use Only		
							Sample #	TC	EC
9/28/2012	1120	Raw River - (1)	S	—			536753	P	P
9/28/2012	1115	Treated River - (2)	S	—			754	A	A
9/28/2012	1045	Raw Hess Creek - (3)	S	—			755	P	P
9/28/2012	1050	Treated Hess Creek - (4)	S	—			756	A	A

Sample Type*: R=Routine / P=Repeat / S=Special
 *P sample location: U=upstream; S=same; D=downstream

Results: TC = Total Coliform EC = E.Coli
 Results Interpretation: P=Present; A=Absent

Samples Collected by: _____ Paul S.

Laboratory Information

Date & Time Received 1323 9/28/12 11
 Date & Time of Analysis Setup 1428 9/28/12 11
 Date & Time Reviewed Analyzed JS 10⁵⁰ 9/29/12 11

Received By: EM
 Method: SM 9223 CL-18
 Analyst: JS

TRM-10-002
 16.8



City of Keizer - Department of Public Works
930 Chemawa Rd. N.E. * PO Box 21000
Keizer, OR 97307 (503)390-3700 fax (503) 393-9437
www.keizer.org

March 11, 2013

To Whom It May Concern,

Global Pure Water's Hurricane Rapid Response Water Purification System passed water sampling test from a raw water source in the City of Keizer. The raw water source, Claggett Creek is surface water that starts in NE Salem and is heavily influenced by street, residential and commercial runoff. The site used for sampling also has a cattle pasture adjacent to it with gradient to Claggett Creek. After sampling with the AquaCera Carb filters, the water system removed total coliform and e-coli to non-detect levels. The system is well built, easy to handle, easy to store, requires little maintenance and can fit into virtually any budget or emergency preparedness grant process. I would recommend this system to anyone looking for an inexpensive, easy to operate and effective tool that can be used to provide emergency water for a community during a catastrophic event.

Thank you,

Mathias H. Reyes
City of Keizer Department of Public Works
Water Distribution Supervisor
Office: (503) 856-3558
Cell: (503) 932-0622
Email: reyesm@keizer.org

TEST REPORT

PWS ID#: _____ Source ID: _____ Source Name: _____
Global Pure Water
5663 Balboa Ave #283
San Diego, CA 92111

Sample Identification

Sampled at: Claggett Creek, Keiz
Date Collected: 04/15/2012
Date Received: 04/16/2012
Sampled by: Don
Time Collected: 1530
Time Received: 1001

Sample Composition:

Lab Sample ID#: 20120416-002

Case Narrative

The analyses were performed according to the guidelines in the WATERLAB Corp Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

WATERLAB Corp certifies that this report is in compliance with the requirements of NELAC. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Analyte	Code	MCL mg/l	Analysis mg/l	MRL	Method	Analyst	Date Analyzed	ORELAP ID#
Q Tray RUSH								OR100039
Total Coliform			<1	1	SM9223	MC	04/17/12 1045	OR100039
E. coli			<1	1	SM9223	MC	04/17/12 1045	OR100039

Total E. coli SM 9223 B (Coli-Count Tray) 21st Ed.

< means less than the level specified

Date/Time started/Tech: 4/16/12 1045 MC

ND-No Detection @ MRL

MCL-Maximum Contaminant Level

SM-"Standard Methods for the Examination of Water and Wastewater", 19th ed

EPA-"Methods for Chemical Analysis for Water and Wastes", USEPA

MRL-"Method Reporting Limit"

A - Waterlab Corporation, ORELAP 100039

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Waterlab Corporation.

DATE REPORTED: 04/17/2012

Approved by: _____



City of Aumsville

595 Main Street
Aumsville, Oregon 97325
maryann@aumsville.us, www.aumsville.us
Phone: (503) 749-2030 • Fax: (503) 749-1852

March 6, 2013

To Whom It May Concern:

The City of Aumsville purchased two Global Pure Water's Hurricane Rapid Response Water Purification Systems because of the great reports of other cities in Oregon that have bought and tested them. Though I hope we never have the chance to use them, I am confident that they will provide enough water to sustain our community in the event of a disaster. I like that the package that can easily be transported, setup, and can be 12v dc or 120v ac powered. I would recommend that these units be available to any area that has a population that will need water where they may be isolated from other forms of water supplies for any length of time.

Steve Oslie, Public Works Director
City of Aumsville

CITY OF YONCALLA

2640 EAGLE VALLEY ROAD P.O. BOX 508 YONCALLA, OR 97499
PHONE (541) 849-2152 FAX (541) 849-2552 E-MAIL yoncalla@rosenet.net

March 18, 2013

To Whom it May Concern:

I personally attended a demonstration of the Global Pure Water's Hurricane Rapid Response Water Purification Systems and was quite impressed. The portability of the system was attractive as well as the result of the water purification test demonstrated.

I took the information to my City Council and we are scheduling a demonstration with them as well as another small community that has shown interest. It is one more item in our arsenal that will assist us in providing water for our community in the event of a failure of the system by whatever means.

I think our Council will be impressed and eager to purchase a unit after the demonstration.

Sincerely,



Gerald Cross
Mayor

CeraCarb (carbonized ceramic composite) specs

Pathogenic bacteria

Cholera, Typhoid, Salmonella, Serratia, Fecal Coliform >99.99%
E. coli - 100%

Cysts

Cryptosporidium Parvum, Giardia Lamblia - 100% removal

Sediment

Down to 0.8 micron - 100%
0.3 - 0.5 micron >99.99%
Turbidity >99.7%

Contaminants

Chlorine, Chloramines, COD (Chemical Oxygen Demand), Lead, Arsenic, Nitrite, Pesticides, Herbicides, VOC's, Iron, Aluminum, THM (Trihalomethanes), PAH (poly-aromatic hydrocarbons), and other heavy metals.

Chlorine - 99%
COD >75%
Lead - 99%
Arsenic - 90%

VOC's

Alachlor	Atrazine	Benzene
Carbofuran	Carbon tetrachloride	Chlorobenzene
Chloropicrin	2,4-D	Dibromochloropropane
o-dichlorobenzene	p-dichlorobenzene	1,2-dichloroethane
1,1-dichloroethylene	cis-1,2-dichloroethylene	Trans-1,2-dichloroethylene
1,2-dichloropropane	cis-1,3-dichloropropylene	Dinoseb
Endrin	Ethylbenzene	Ethylene dibromide
Haloacetonitriles	Haloketones	Heptachlor epoxide
Hexachlorobutadiene	Hexachlorocyclopentadiene	Lindane
Methoxychlor	Pentachlorophenol	Simazine
Styrene	1,1,2,2-tetrachloroethane	Tetrachloroethylene
Toluene	2,4,5-TP	Tribromoacetic acid
1,2,4-trichlorobenzene	1,1,1-trichloroethane	1,1,2-trichloroethane
Trichloroethylene (TCE)	Trihalomethanes (THMs)	Xylenes



Why Silver?

Silver has been used for centuries as a purifier and is still in use today. In ancient Greece and Rome, people used silver vessels to keep water, wine and vinegar pure during their long voyages. Settlers used silver dollars to purify water and keep milk from spoiling. Silver-based water purification units for the home have been in use in Europe for more than 50 years. Silver is even used on the International Space Station.

**Silver is easy to use, can't spill, and is very reliable.
The real question is – why would you use anything else?**

Silver can not lose its effectiveness due to system failure. Unlike ultraviolet light (UV), silver requires no electricity and can be used even if batteries fail or no electricity is available.

Bacterial regeneration does not occur with silver as it may with UV or nano-filtration. Because the positively charged silver ions are attracted and adhere to negatively charged bacteria, the disinfection continues long after exposure. UV and nano-filtration clean the water, but leave it vulnerable to recontamination.

Unless water is very clean before UV treatment, disinfection may not occur due to "UV shading" or scatter which prevents the UV light from coming into contact with all bacteria. UV bulbs contain mercury vapor – a known carcinogen – and require special care and disposal.

There are no chemicals to transport or handle with silver purification. The US Transportation Safety Administration (TSA) and many countries do not allow air transportation of chlorine, the most common disinfectant. NSF approved chlorine or iodine is not widely available and non-NSF approved chemicals may have elements which are harmful to human health.

Dosing is difficult with chemicals. To ensure a proper dose of chlorine in 5 gallons of water, one would have to measure less than .002 ounces of chlorine.



The Hurricane is built tough to make sure that it makes it to the disaster zone in working order.

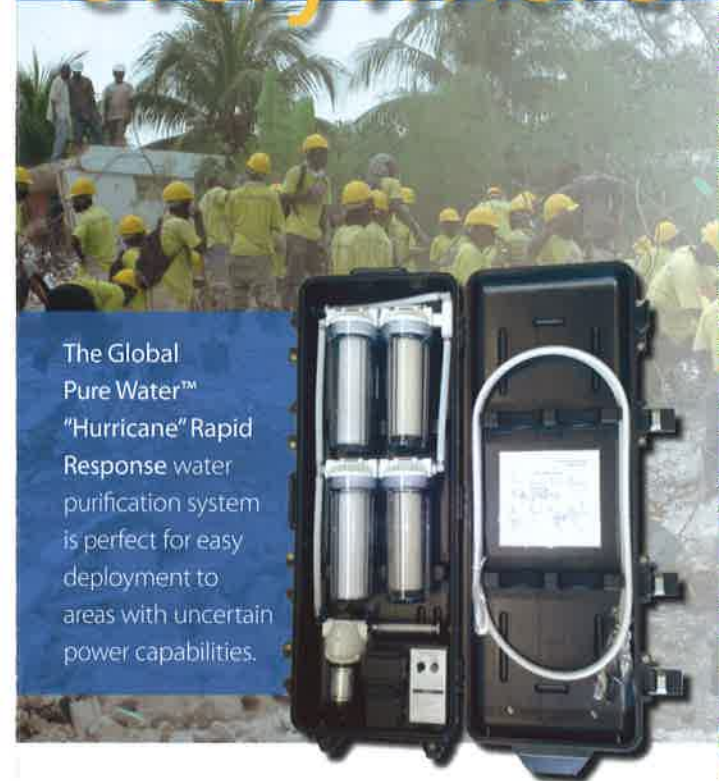
See just how rugged the Hurricane is – watch the Hurricane testing video on our web site.

Visit www.GlobalPureWater.com

globalpurewater

Global Pure Water, Inc.
5663 Balboa Ave #283 San Diego, CA 92111
(800) 809-4044
www.GlobalPureWater.com

Drinking water
everywhere



The Global Pure Water™ "Hurricane" Rapid Response water purification system is perfect for easy deployment to areas with uncertain power capabilities.

Fast and easy deployment to wherever you need water. The unique Global Pure Water purifiers are rugged and can run in a variety of modes – even without electricity!

Easy to transport, easy to setup and use. Whether sending one person for a week or five hundred people for a year, Global Pure Water has a solution for your temporary clean water needs.

globalpurewater

Disaster Relief

Regardless of the type of disaster, drinking water is a top priority. The Hurricane can be connected to pressurized systems or used separately to clean available ground or surface water.

Rapid Deployment

Easy to transport, easy to setup and use. Whether sending one person for a week or five hundred people for a year, Global Pure Water has a solution for your temporary clean water needs.

Clean Water Anywhere

Clean drinking water has become scarce the world over.

Of course the water in third world countries is at risk for dangerous bacteria. Now water in developed nations like the U.S. has become less reliable. Even wells and mountain streams are no longer certain to be pure.

Don't risk disease – purify your drinking water.

- ✓ Highly effective barrier to particles and pathogens
- ✓ Long filter life with cleanable ceramic filters
- ✓ Self-sterilizing filters
- ✓ Low cost of operation
- ✓ Minerals maintained

Emergency Water

Built to be **easy to use, inexpensive to purchase and operate and be rugged and dependable**, you can count on the Hurricane from Global Pure Water.

Our portable water purification systems provide emergency drinking water quickly where it is needed most. **Set up takes only minutes.** Screw in a faucet, a hose, drop one end of the hose in some water and turn it on. It is that easy!

It seems that everything fails in an emergency when you need it most. The Hurricane was designed to run no matter what. **Use almost any power source** – 110/220 volts, car cigarette lighter, generator, solar panels, or wind generator. If that all fails, it will filter over 200 gallons (750 liters) on the built in battery.

No dangerous chemicals to measure. No mercury filled UV bulbs to break. The Hurricane provides up to **135 gallons (500 liters) per hour.** That is enough to provide 540 people a gallon (3.75 liters) each in just four hours.

Each Hurricane portable water purification system is under 50 pounds (22.6 kg) and can be **checked as baggage** on most airlines**. With a handy handle and wheels, it is easy to transport.

“Hurricane” Portable Water Purification System

Already have a well or other untrustworthy pressurized system? Just connect using the supplied drinking water quality garden hose or 1/2” NPT fittings and you don't even need electricity!

If the ceramic filters clog, just clean them with a brush or Scotch pad. Cleaning the Hurricane is simple – keeping it in action all the time.



Contamination Reduction when used with the Standard Ceramic Filters:

- Absolute filtration rating (defined as > 99.99%): 0.9 micron
- Nominal filtration rating (defined as > 99.9%): 0.5 - 0.8 micron
- E.coli Bacteria: > 99.99% removal
- Vibrio Cholera Bacteria: > 99.99% removal
- Shigella Bacteria: > 99.999% removal
- Salmonella Typhi Bacteria: > 99.999% removal
- Klebsiella Terrigena Bacteria: > 99.99% removal
- Cryptosporidium: > 99.999% Cyst removal
- Giardia: > 99.999% Cyst removal
- Shipping: 47 pounds, 43x16x7 inches. 21 kg, 109x41x18 cm.

Ceramic Filter

Composition of the ceramic filter contains pure silver. This silver is a specially formulated self-sterilizing (bacteriostatic) agent. The result is that bacterial growth is prevented from occurring within the ceramic element (which is possible with the other ceramic filter elements.) More importantly, bacterial “grow-through” is eliminated. This silver content is about 0.07%, which is well within the allowable levels recommended by the World Health Organization. Because of the silver, the filter elements do not require sterilization after cleaning.

The ceramic shell is a silver impregnated ceramic micro filter manufactured to the highly consistent and controlled pore structure necessary to provide genuine sub micron filtration. In addition to fine particulate matter, bacteria, cysts and turbidity are removed to a high level of efficiency. Some key features of the ceramic filter are:

Maximum working pressure	125 psi (8.6 bars)
Maximum working temperature	100 °F (37.8 °C)
Minimum working temperature	40 °F (4.4 °C)
Recommended cleaning frequency	every 6 months or when flow rate is noticeably lower
Recommended change frequency	every 12 months
Contaminant Removal	The great majority of pathogenic (disease causing) bacteria and cysts are larger than one μ . The pore size of the ceramic filter element is controlled so that it will remove all suspended matter larger than 0.9 μ .
Pathogenic Bacteria	Chorela, Typhoid, Salmonella, Serratia, E. Coli, Fecal Coliform: >99.99% removal
Cysts	Cryptosporidium parvum and Giardia lamblia: 100% removal (based on tests by Arizona State University)
Sediment	Down to 0.9 μ , 100%; 0.5-0.8 μ with a filter efficiency of >99.99% (based on tests by Spectrum Laboratories, Minneapolis, MN)

Replacement Pre-Filter

The Hurricane pre-filters are 5 micron melt blown polypropylene. They are a very inexpensive way to reduce clogging and maximize the usable life of the silver impregnated ceramic filters.

*According to **FEMA**, a normally active person needs at least one-half gallon of water daily just for drinking and that a gallon per day per person is necessary for emergencies.

**We are not aware of any airline or airport refusing to allow a Hurricane emergency water system to be checked as baggage, but please call ahead to be certain as airport rules are subject to change.