



Clean Water and Renewable Energy Solutions

MASTER PRESENTATION

January 2012



DG 24/7

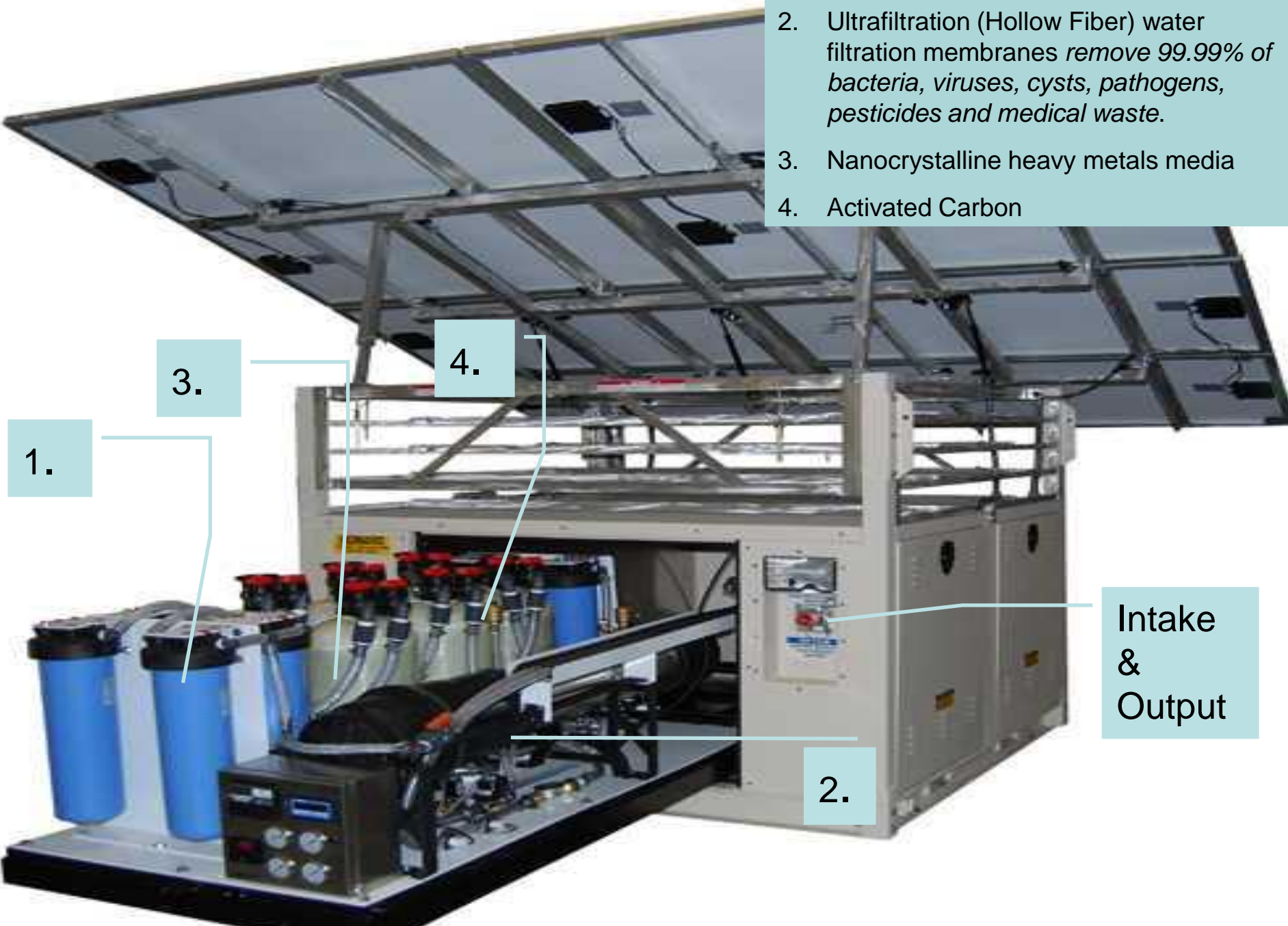
- **Completely solar-powered unit eliminates dependency on grid power**
- **Capable of running 24 hours/day without consistent exposure to sunlight (up to 5 full days without sunlight)**
- **Provides up to 25,000 liters daily (Mod I)**
- **Removes 99.99% of heavy metals like arsenic, lead, and mercury, bacteria, cysts, viruses, and pathogens**
- **No Ultraviolet technology used; No lamps to break, foul, or malfunction.**

DG 24/7



- **Rapid Deployment**
 - Small size, 6x6x6ft, designed to fit 463L pallet
 - Air, surface or surface ship deliverable
- **Simple and Reliable Components**
 - Proven water filtering capability in austere environments
- **Virtually maintenance-free for up to a year**
- **20-year lifecycle = long term, sustainable solution**

1. Nano-Technology pre-filters
2. Ultrafiltration (Hollow Fiber) water filtration membranes *remove 99.99% of bacteria, viruses, cysts, pathogens, pesticides and medical waste.*
3. Nanocrystalline heavy metals media
4. Activated Carbon



1.

3.

4.

2.

Intake & Output



Major Components of the 24/7



- Customizable array of solar panels
- Trojan Rechargeable Solar Deep Cycle Gel Batteries
- OutBack Charge Controller
- Proprietary Nanocrystalline heavy metals media
- Pumps from depths of 70 feet
- Hollow fiber ultrafiltration membranes



DG Filtration and Bottling Plant



- Completely solar-powered and capable of producing 250,000 liters of potable drinking water daily packaged in 0.5, 1.0, and 1.5 liter bottle sizes.

- On-site purification for military bases will avoid cost and transportation of bottle water.

- Ultrafiltration and DG heavy metals media to purify water from virtually any water source.

- Total system is comprised of five DG 24/7 Mod II, two blow-molder machines, four filler and packaging lines.

- Smaller, self-contained plants capable of producing smaller per day quantities (1,000 to 3,000 liters) for small village applications possible





DynGlobal Point of Use Water Filtration Solutions



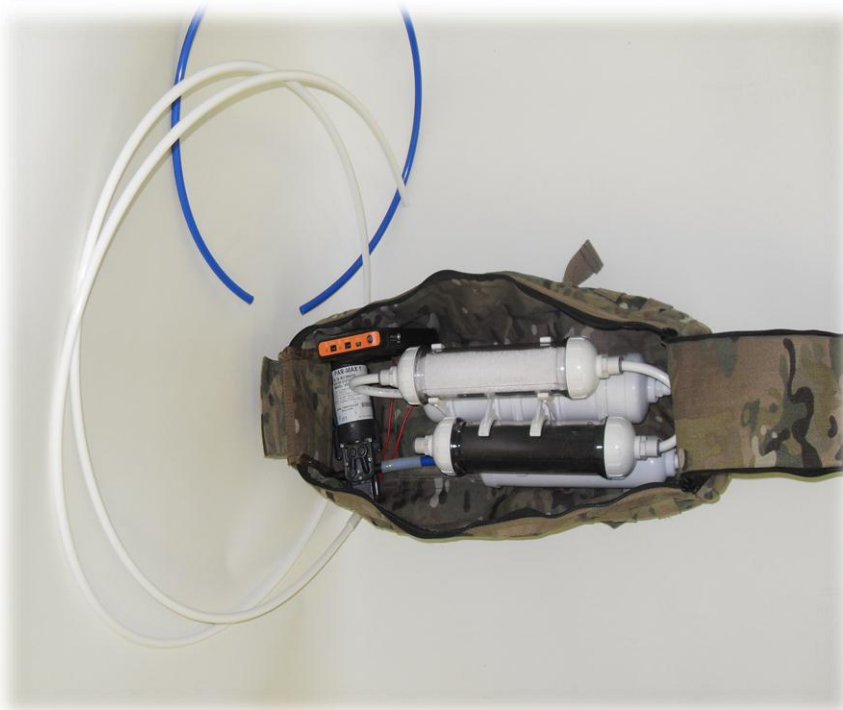
DG Tactical Water Purification

Man portable: Tactical Water Purification

Uses include Medical, Squad, Vehicle, Helo, AF Pilots.

Ultrafiltration and DG proprietary heavy metals media to purify water from virtually any source at 100 GPD

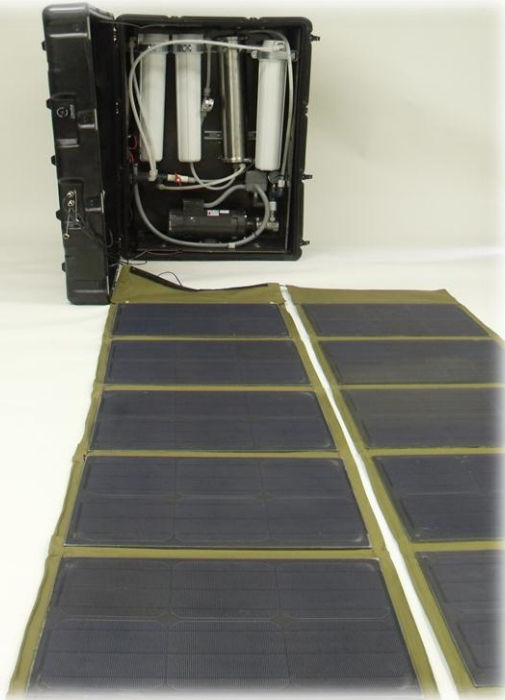
Optional foldable solar power





DG Solar-Powered Water Filtration Solutions

Ultrafiltration and DG proprietary heavy metals media to purify water from
virtually any source
Optional foldable solar power
1500, 1000, 500 GPD options



1. Nano-Technology pre-filters
2. Ultrafiltration (Hollow Fiber) water filtration membranes *remove 99.99% of bacteria, viruses, cysts, pathogens, pesticides and medical waste.*
3. Nano crystalline heavy metals media
4. Activated Carbon





DG Mobile & POU Series



**DG
1500**



**DG
1000**

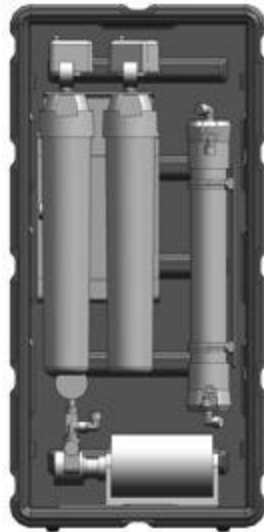


**DG
500**

- Ultrafiltration and DG proprietary heavy metals media to purify water from virtually any source
- Optional foldable solar power
- 1500, 1000, 500 GPD options

Pelican Transport Cases

AL4018-1003 CONTAINER



Cases are all-weather, waterproof, and customized for DG 500, DG 1000, DG 1500



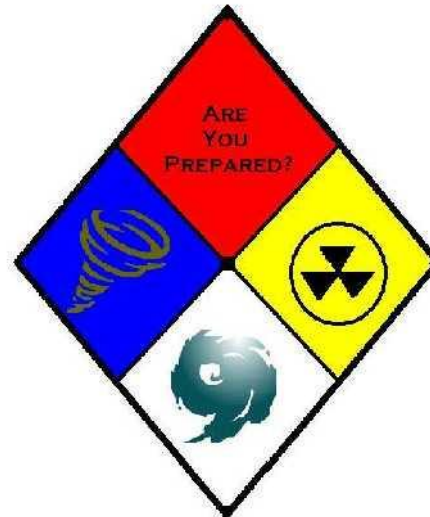
DG 1800 Desal

- **Solar Powered via DG foldables**
- **1800 GPD**
- **Hollow fiber ultrafiltration with optional heavy metals removal**
- **Man-portable**
- **Housed in custom Pelican case**

Rapid Deployment of Portable Units

- Military
- First responders
- Fire & Rescue
- Earthquake
- Flood

- Tornadoes
- Wildfires
- Medical Outbreak
- Haz Mat
- Tsunami



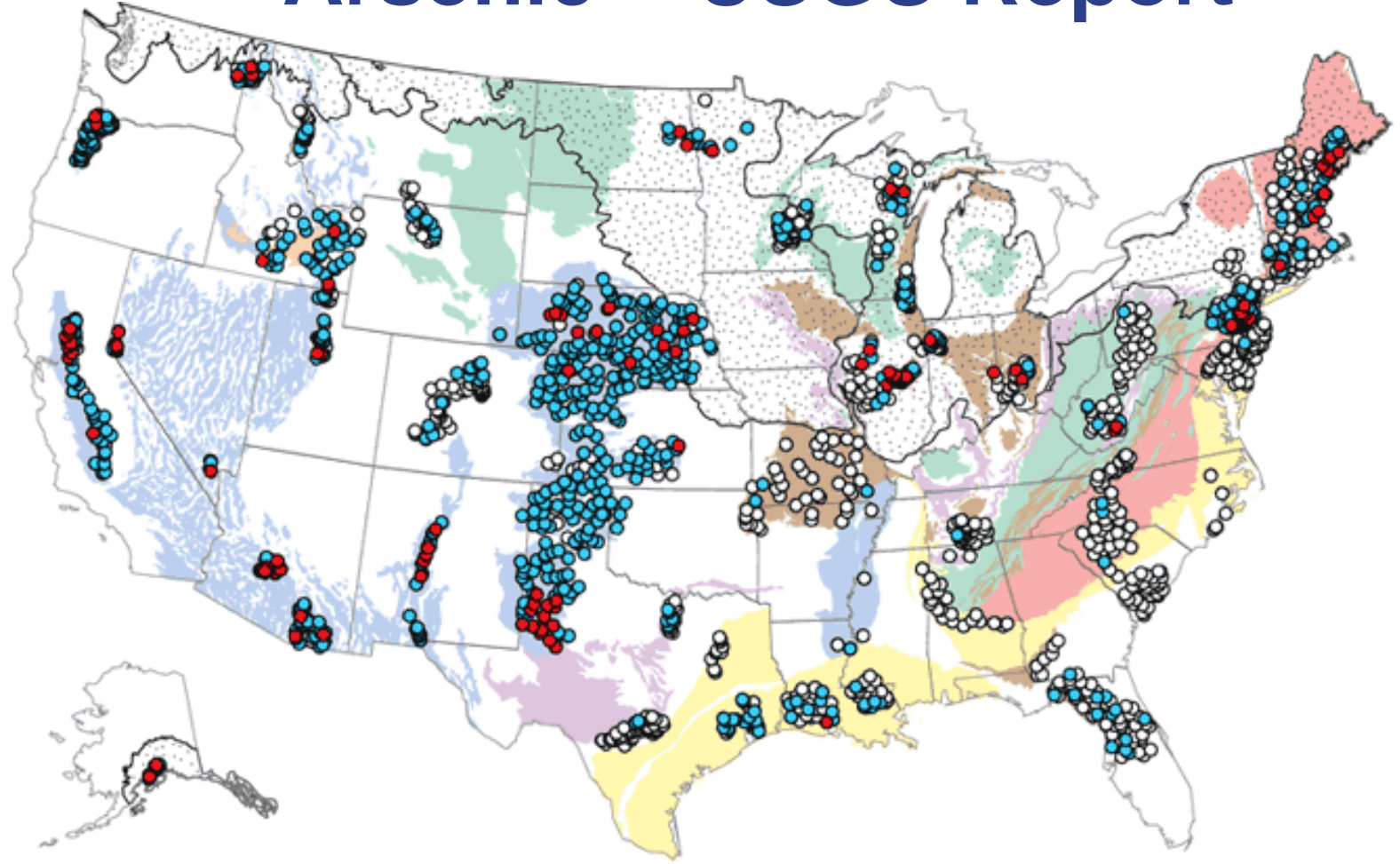


- **Under-sink point of use filtration option**
- **Ultrafiltration and DG proprietary heavy metals media to purify water from virtually any source**
- **Compact, asymmetric design provide maximum water filtration in minimum space & weight**
- **Operates without a pump or battery power**



DynGlobal Scalable Metals & Nonmetals Removal

Arsenic - USGS Report



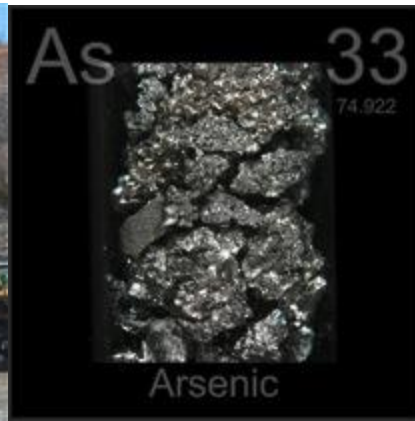
EXPLANATION

ARSENIC, IN MICROGRAMS PER LITER

●	> 10	●	≥ 1 and ≤ 10	○	< 1
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Coal Ash Ponds

- EPA Proposes Coal Ash Rule 6/21/10
 - Two options for regulation -
(RCRA Subpart C or RCRA Subpart D)
 - Under either scenario coal ash ponds and polluted groundwater will have to be cleaned up
 - Regulations in public notice and comment period





DG Metal-Out Media

- Heavy metals removed from water in large-scale operation
- Non hazardous proprietary media
- Customizable solution for utility companies managing coal ash ponds and watershed pollution issues





DG HydraPak





DG HydraPak

- Entirely contained within a military style load bearing backpack

- Membrane filtration remove turbidity, odor, bacteria, resistant protozoan cysts, and pathogens

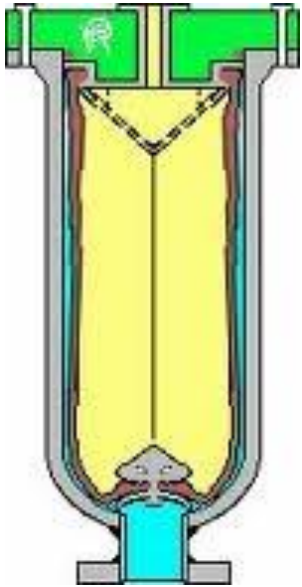
- Powered using DynGlobal proprietary DG AIR technology



- No grid or battery power required
- No moving parts; easily operated
- Soon-to-be patented compressed air regulator

- Lightweight – less than 1lb without backpack or water

DG HydraPak



- Contains a system of three lightweight and flexible water and air bladders for holding and purifying water
 - Bladders are removable for in-field filling
- Nanocrystalline media removes 99.99% of heavy metals like arsenic and lead from virtually any water source
- Purifies one liter batches of water in less than three minutes
- WaterBack enables a total of three liters to be purified with each setup
- Engineered specifically for military use

Democratic of the Republic of Congo DG 24/7 Installations

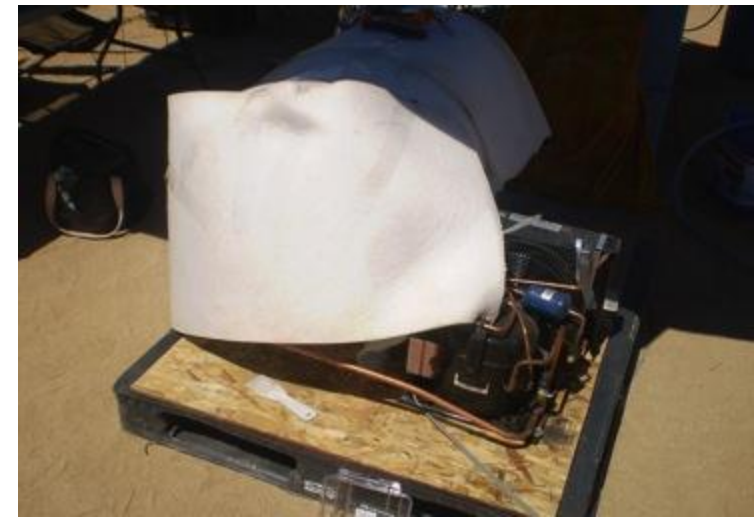
DynGlobal Proprietary Information – Not for Public Release



ExFOB IV DG WaterBull

Electrical Thermal Water Cooling “Water Bull” Simulation

- Ambient water is cooled using a proprietary “stinger” of coiled copper tubing
- System is charged by a small super-cooled refrigeration compression unit
- Compressor is powered via solar generator and cycles off and on to maintain desired water temperature
- Field testing at 29Palms demonstrated system is capable of cooling ambient water (100 F) to 54 F in 2 hours



M149 / MTVK Water Cooling Technology Retrofit

- Specially insulated water bulls are retrofitted with a proprietary “stinger” of coiled copper tubing,
- The stinger is charged by a refrigeration compression unit utilizing “super charged” R404 coolant.
- Compressor is powered via solar foldable panels and solar rechargeable battery generator, and cycles off and on to maintain desired water temperature.
- Entire system is mounted on the tongue of the water bull trailer, inside and on the water bull.
- Cooling system can take 600 gallons of ambient water (120 F) to 60 F in four hours or less, and maintain desired temperature with minimal energy use.





ExFOB IV

DG CoolWater





DynGlobal Solutions: Scalable and Customizable



DynGlobal Water Purification: DG 24/7, Mobile/POU Series, DG 1800 Desal, DG PURE, DG WaterBack

- Scalable for villages/communities, military bases and personnel, hotels, restaurants, and households; Up to 25,000 liters to day
- 100% solar-operated, ideal for disaster relief and areas where grid power is unavailable or has been compromised
- Removal of bacteria, viruses, pathogens, medical waste, metals & nonmetals from virtually any water source

DynGlobal Foldable Solar Blankets & Generators

- Lightweight, portable, and custom ruggedized cases
- Consistent on-demand power source without the need for fuel
- Reliable back-up battery systems



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