



**GREEN
TECHNOLOGY
GLOBAL**

Atmospheric Water Generator

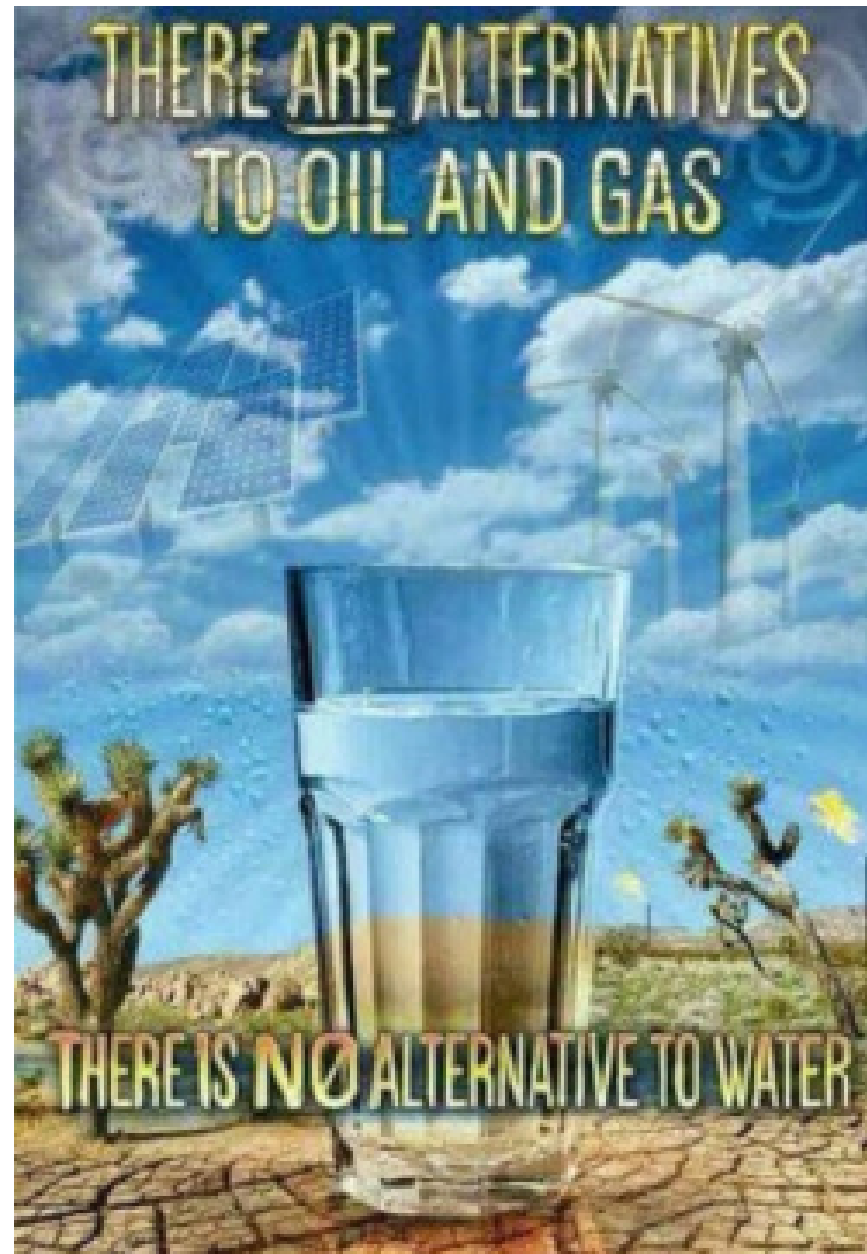


WITH₂OUT



**GREEN
TECHNOLOGY
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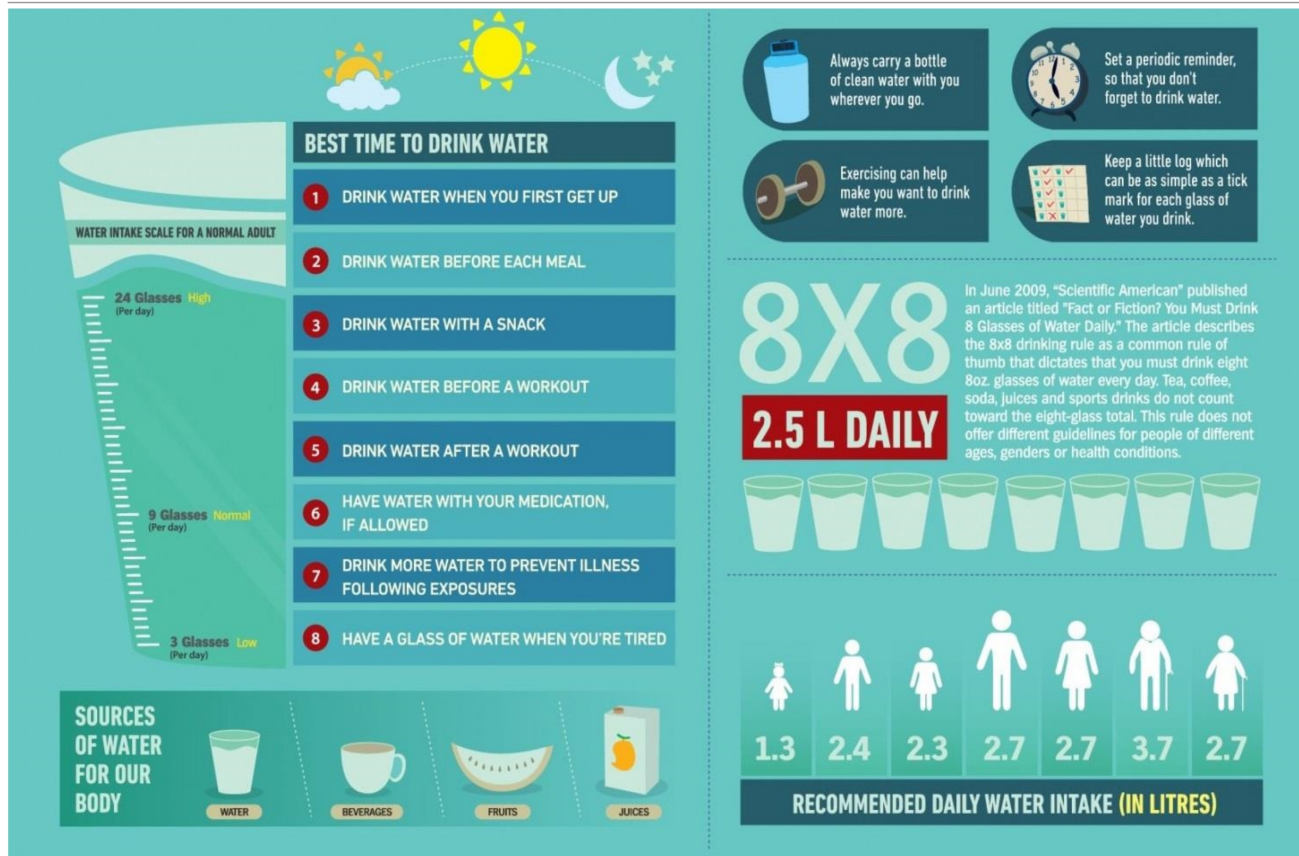
Atmospheric Water Generator



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DAILY WATER INTAKE



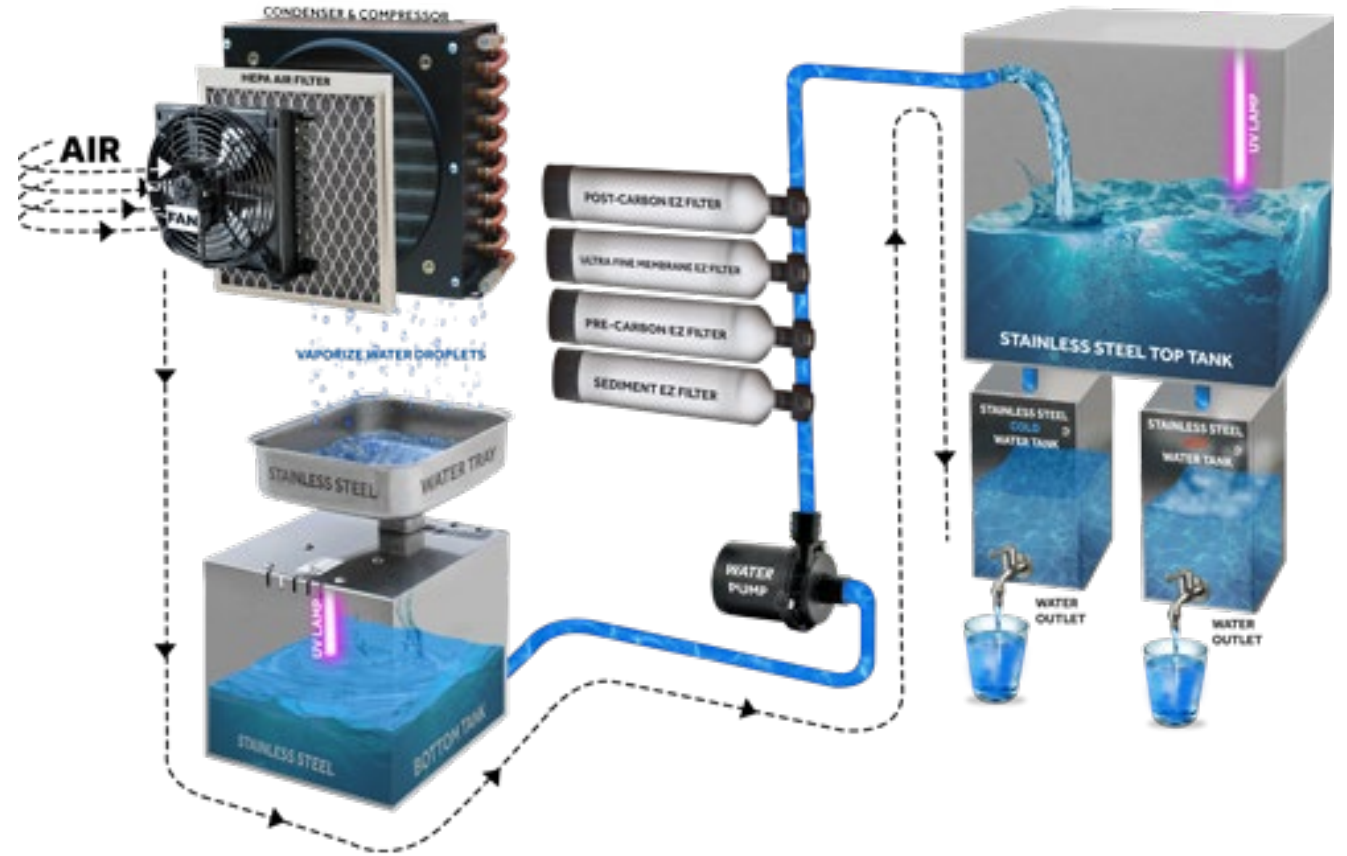
A human being consumes at least **2.5 Liters** water daily



Extracting Water from Air Multi-Stage Processes

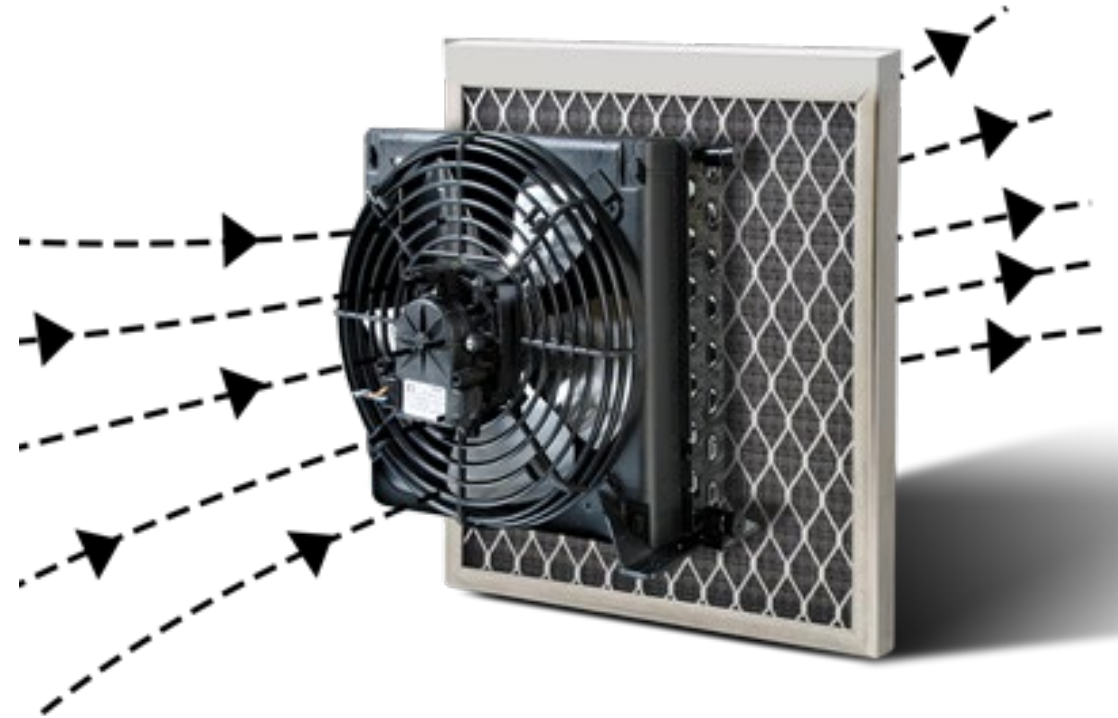
GTG Processes

GTG manufactures an atmospheric water generator appliance that is driven by humidity and temperature conditions. The Higher the relative humidity (water vapor content in the atmosphere) and the higher the temperature, the greater the water output.



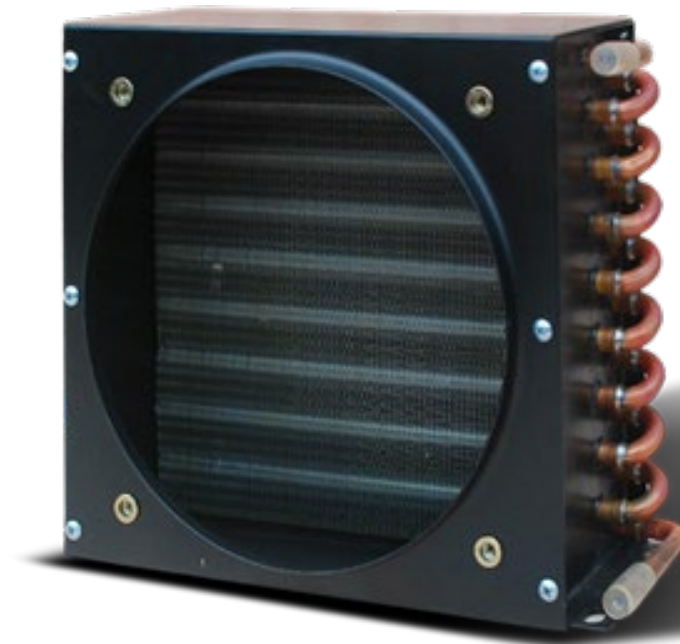
GTG Collection Process

The HEPA Air Filter prevents the entry of dust and other micro-particles/impurities in the air from entering the appliance. This ensures clean water production even in cities with the most polluted air (high particulate concentration)



GTG Condensing Process

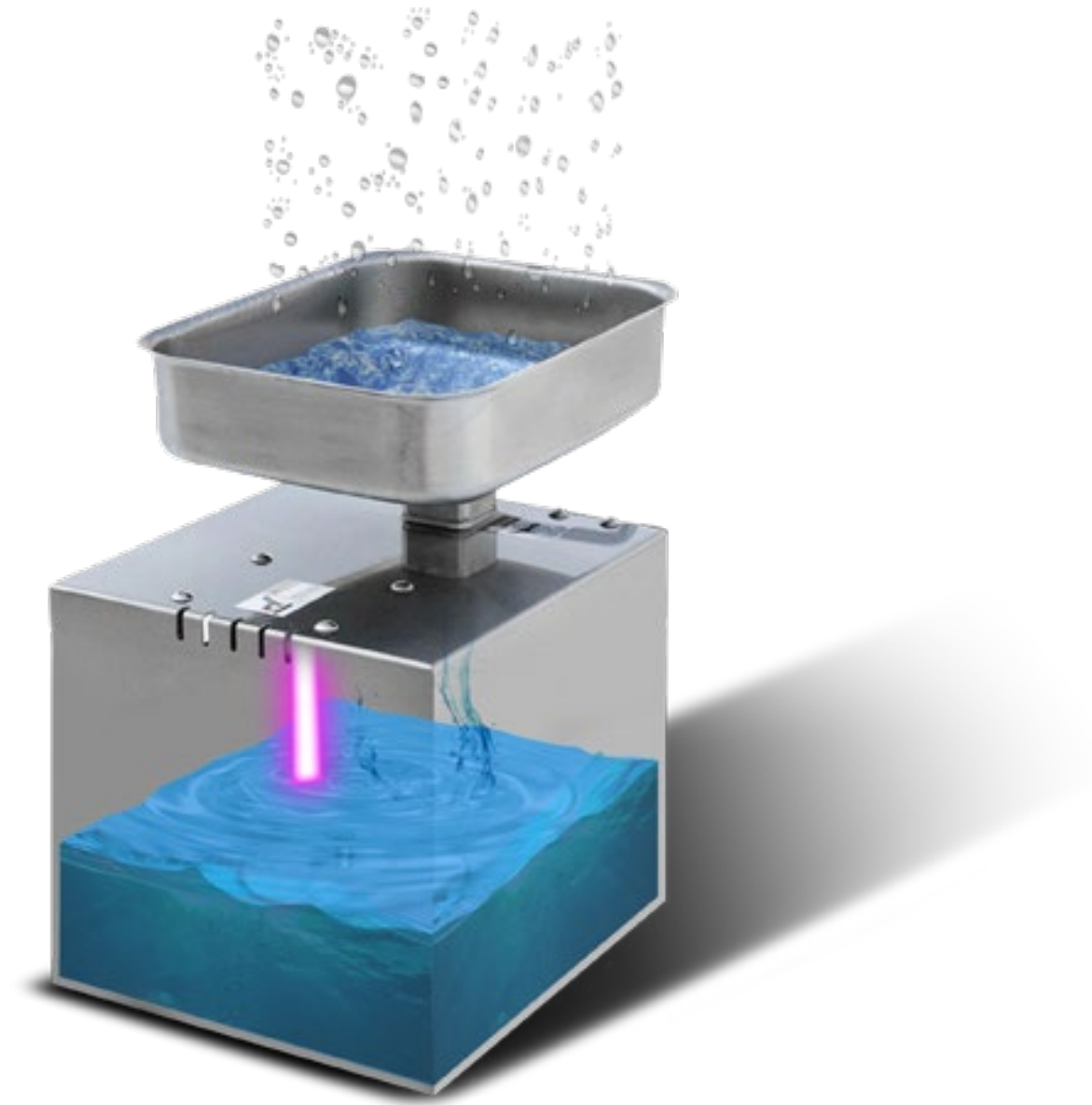
The condenser ensures effective condensation of water from vapor form to liquid form. The type of compressor greatly determines the efficiency of the appliance.



GTG offers 80% RH compressors which work effectively in equatorial climatic conditions with moderately high humidity and temperature (30-100% RH, 15-45°C). We also offer 60% RH compressors which deliver the same output as an 80% RH compressor even at lower humidity (25-100%) and temperature regions.

GTG Draining Process

The dual UV sterilization process ensures disinfection of all contaminants in the condensed water.



GTG Filtration Process

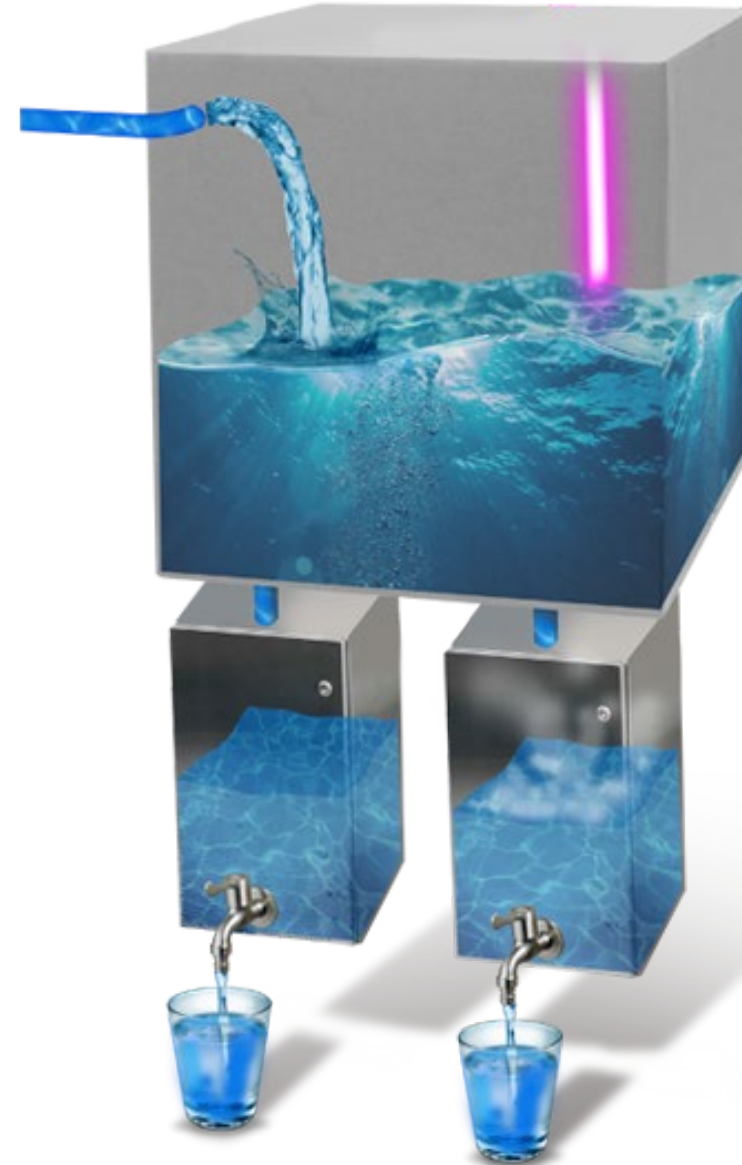
The Sediment filter, ROF filter membrane and the micro filter traps any residual micro-particles that may be suspended or settled in the water making it pure, safe and completely fit for consumption.



GTG Delivery Process

Water is stored in the drinking water storage tank and is sterilized and filtered right before consumption as well.

Safety, simplicity and sustainability rank high in our technological innovations.



GTG Multi-Stage Filtration

So, we have the **EZ-Filter™ System**, where the air is drawn through a HEPA Air Filter. Water vapor in the air makes contact with the stainless-steel coils and condensation occurs, producing water that then goes through the remaining of the 7-stage EZ-Filter™ process producing up to 2 to 5 gallons of “purified great tasting water™” per day with no chlorine, fluoride, lead, or other harmful ingredients. The ones mentioned below are our filters and below the names, I am mentioning their applications.

HEPA Air EZ-Filter™

Prevents micro-particles and dust from entering the appliance.

Top Tank UV Lamp EZ-Filter™

Eliminates bacteria and other microorganisms.

Sediment EZ-Filter™

Eliminates particles over 5 microns in diameter.

Pre-Carbon EZ-Filter™

Activated carbon and coconut components to polish water.

Ultra-Fine Membrane EZ-Filter™

Eliminates particles as small as 0.01 microns in diameter.

Post-Carbon EZ-Filter™

Activated carbon and coconut components to further polish the water.

Bottom Tank UV Lamp EZ-Filter™

Eliminates bacteria and other microorganisms.

There can be added a dedicated mineralization filter if required.

FAQs



- Water from Atmospheric Water Generator provides these benefits:
- Tastes sweeter and better
- Clean & pure processes of multi filtration, RO & UV treatment eliminate hazards caused by viruses, bacteria, pesticides & heavy metal contaminants.
- Rich oxygen contained in the water improves metabolism of the body.

- One Year Warranty on parts

- Replacement filters are available ala carte or via a Service Contract

COST REDUCTION BENEFITS

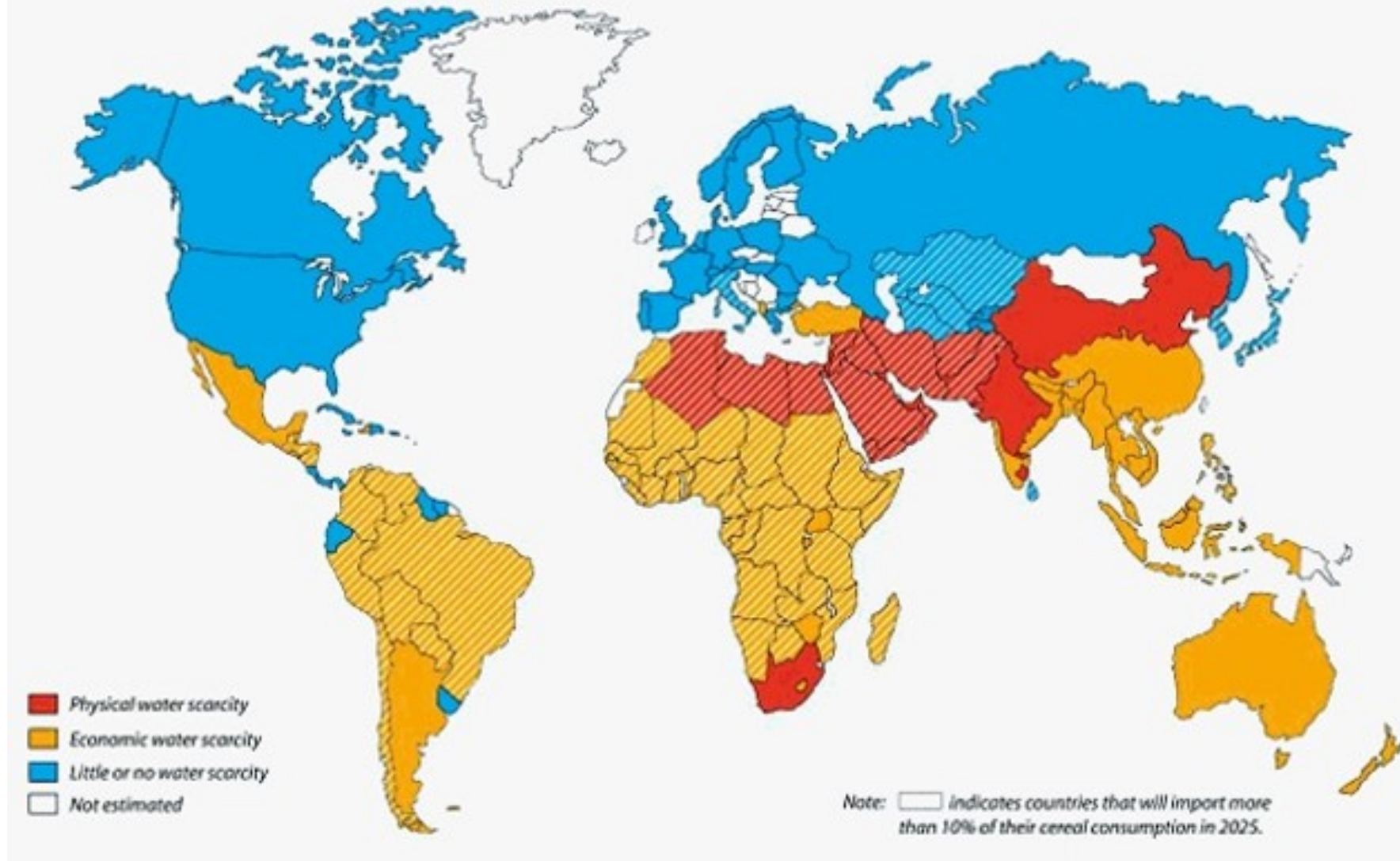


No bottle, gallon or jar is needed to store water. It just needs storage space for the Air to Water Generator only.



No gas is required for boiling water. It saves cylinder cost and energy as well.

Projected Water Scarcity in 2025



Competitive Advantages

- Development of patented technology
- Production of Fresh Water purely from the Atmosphere
- No reliance on existing municipal infrastructure
- Meets/Exceeds World Health Organization (WHO) standards
- Green technology that does not impact existing water sources (either Fresh or brackish water requiring distillation & filtration)
- 7 Point filtration process include UV filters
- There is no other process available globally that produces fresh drinking water on a scalable and sustainable basis

Over 5,300 Water Systems in America violate EPA Lead Safety Levels

Even Flint, a city with the most notorious case of lead in water discovered, is still not listed as having violated the EPA's lead and copper rule.

A Virginia Tech researcher credited with exposing two of the nation's largest lead-in-water crises -- in Washington D.C. in the early 2000s, and in Flint last year -- said he noticed several years ago that the EPA was turning a blind eye to the "cheating" by local water utilities. "Cheating became something you didn't even hide," researcher Marc Edwards told CNN.

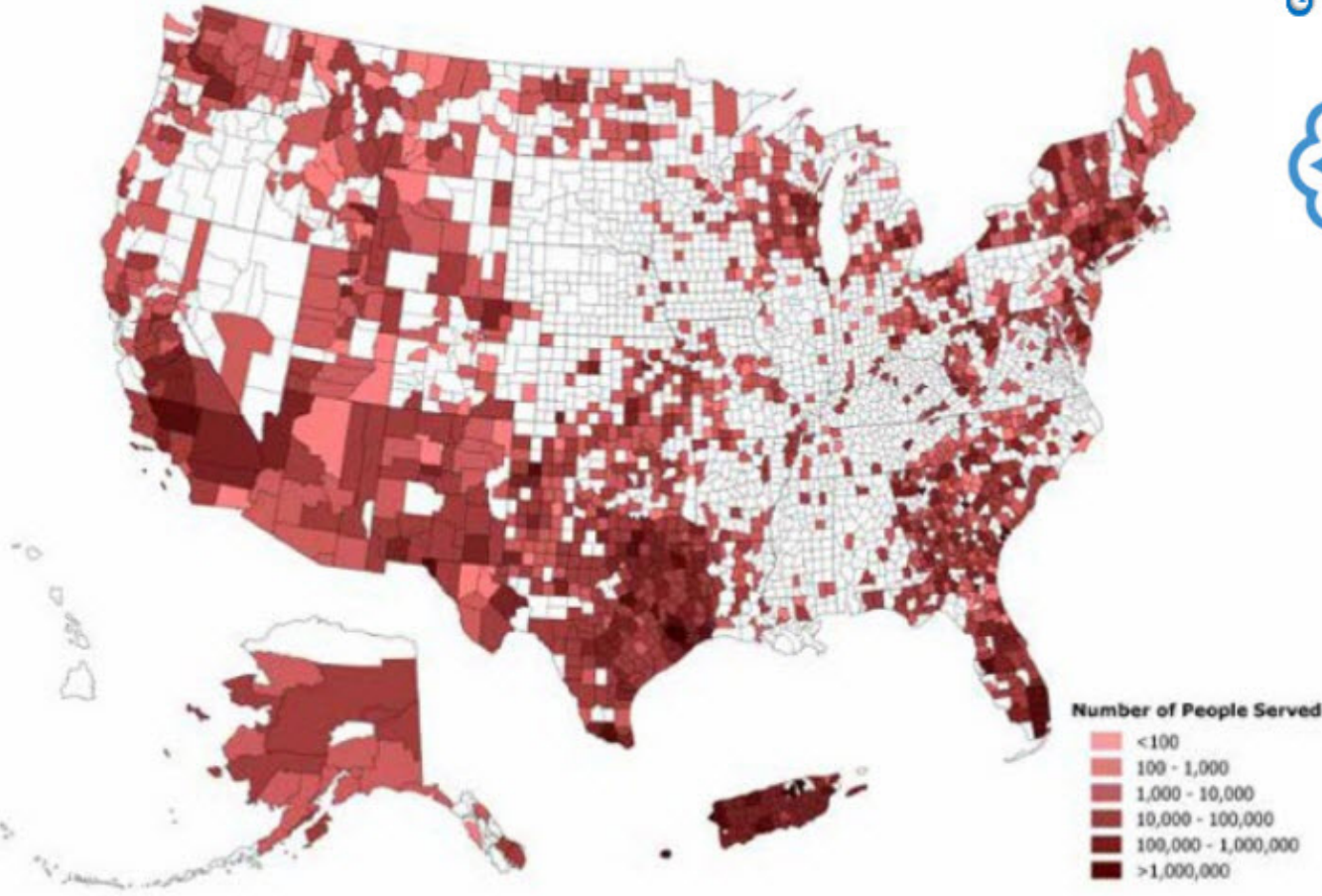


Figure 1: 17.6 million people served by community water systems with reported violations of the lead and copper rule (2015)

GTG AWG production/kWh usage (estimates) MATRIX

Model	Power Supply	Power Rating (kWh)	Real Working Power in 30°C (KWh)	Maximum Daily Water Production (Liters/Day) @ 30°C & R/H @ 80%	Maximum Day Power Usage @86F & R/H @ 80% (KWH)	KWH/Liters	Refrigerant	
							Gas Type	Gas charge amount
20L	Residential 110V 60Hz or 220V 50Hz	0.46	0.4	20	7.2	0.36	R134a	
80L		1.35	1.18	80	34.8	0.22	R134a	
250L		3.4	2.9	262	69.6	0.27	R410a	2.4 kgs
500L	Industrial 380V 50Hz 3Ø or 460V 60Hz 3Ø	6.3	5.4	480	129.6	0.27	R407c	4.7 kgs
1000L		12.3	10.5	965	252	0.26	R407c	2*4.7 kgs
2000L		24.6	20.9	1940	501.6	0.25	R407c	2*8 kgs
5000L		64	54.4	4970	1305.6	0.26	R407c	4*9 kgs
10000L		128	108.8	9940	2592	0.26	R407c	8*9 kgs

Comments:

Water production is based on 24/7 usage

Humidity is based on 80% R/H

Temperature based on 30°C/86 degrees F

Power usage based on full daily production of water being used

3Ø = 3 phase power



20 Liters per Day/ 5.28 Gallons per Day *Residential Unit*



Green Technology Global	5 Gal or 20 Liter AWG Specs
Supply Power	US AC 110V/60Hz; Europe 220V/50Hz
Power Rating	0.46kWh
Real Working Power at 86 degrees F	0.4kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	7.2kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	5 Gallons / 20 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	SPC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R134a
Machine Dimensions	11.8"L x 17.33"W x 45.28"H
Machine Net Weight	99.2 lbs
Annual Filter Kit	HEPA Air Filter PP Pre-Carbon Post-Carbon UF UV Mineralization

80 Liters per Day/ 21.13 Gallons per Day

Portable Unit



Green Technology Global	21.13 Gal or 80 Liter AWG Specs
Supply Power	US AC 110V/60Hz; Europe 220V/50Hz
Power Rating	1.35kWh
Real Working Power at 86 degrees F	1.18kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	34.8kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	21.13 Gallons / 80 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	SPC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R134a
Machine Dimensions	17.55"L x 23"W x 33.2"H
Machine Net Weight	135 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization

Fresh Drinking Water Bladders

Storage Reservoirs can be easily connected to the GTG Atmospheric Water Generators for Portability of Stationary uses.

Custom sizes available.

They're built with NSF-61 certified materials and come standard with two, 2" fill/discharge female NPT flanges and a 3/4" NPT check valve vent.

Ground Pad Included: We include a ground pad with each Potable Water Bladder to protect it from sharp objects.



100 Liters per Day/ 26.4 Gallons per Day

Residential Unit



Green Technology Global 26.41 Gal or 100 Liter AWG Specs	
Supply Power	US AC 110V/60Hz; Europe 220V/50Hz
Power Rating	1.35kWh
Real Working Power at 86 degrees F	2.9kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	34.8kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	26.41 Gallons/100 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	SPC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R134a
Machine Dimensions	49.2"L x 21.4"W x 49.8"H
Machine Net Weight	309 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization

250 Liters per Day/ 66 Gallons per Day

Residential/Industrial Unit



Green Technology Global 66 Gal or 250 Liter AWG Specs	
Supply Power	US AC 110V/60Hz; Europe 220V/50Hz
Power Rating	3.4kWh
Real Working Power at 86 degrees F	2.9kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	69.6kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	69 Gallons/262 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	SPC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R410a
Machine Dimensions	73.23"L x 37.40"W x 65.36"H
Machine Net Weight	800 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization

500 Liters per Day/ 132 Gallons per Day *Commercial Unit*



Green Technology Global 132 Gal or 500 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	6.3kWh
Real Working Power at 86 degrees F	5.4kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	129.6kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	69 Gallons/262 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	76.18"L x 45.28"W x 46.06"H
Machine Net Weight	1786 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization

1000 Liters per Day/ 264 Gallons per Day

Commercial Unit

Green Technology Global 264 Gal or 1000 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	12.3kWh
Real Working Power at 86 degrees F	10.5kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	252kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	264 Gallons/1000 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	85.24"L x 61.02"W x 81.74"H
Machine Net Weight	2359 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization



2000 Liters per Day/ 528 Gallons per Day

Commercial Unit

Green Technology Global 528 Gal or 2000 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	24.6kWh
Real Working Power at 86 degrees F	20.9kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	501.6kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	528 Gallons/2000 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	85.03"L x 120.07"W x 81.74"H
Machine Net Weight	4475 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization



5000 Liters per Day/ 1320 Gallons per Day *Commercial Unit*



Green Technology Global 1320 Gal or 5000 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	64kWh
Real Working Power at 86 degrees F	54.4kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	1395.6kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	1320 Gallons/5000 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	86.61"L x 222.44"W x 83.85"H
Machine Net Weight	8598 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization

10000 Liters per Day/ 2641 Gallons per Day *Commercial Unit*

Green Technology Global 2641 Gal / 10000 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	128kWh
Real Working Power at 86 degrees F	108.8kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	2592kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	2641 Gallons/1000 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	86.81"L x 397"W x 86.22"H
Machine Net Weight	18078 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization



20000 Liters per Day/ 5283 Gallons per Day *Commercial Unit*



Green Technology Global 5283 Gal or 20000 Liter AWG Specs	
Supply Power	US AC 460V 60Hz 3Ø; Europe 380V 50Hz 3Ø
Power Rating	256kWh
Real Working Power at 86 degrees F	217.6kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	5184kWh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	5283 Gallons/20000 Liters
Temperature Range	59 to 113 degrees F
Humidity Range	30% to 100% Relative Humidity
Compressor Type	Enclosed Vortex
Phase Protection	Delay Protection Hi & Low Pressure Protection Overheat & Overload Protection
Control System	PLC
Control Type	External Balance type Thermal Expansion Valve
Gas Type	R407c
Machine Dimensions	86.61"L x 818.9"W x 78.34"H
Machine Net Weight	38140 lbs
Annual Filter Kit	HEPA Air Filter PPF CTO UDF UF UV Mineralization



Atmospheric Fresh Drinking Water Generators

Custom Sized Storage Reservoirs



**Customized Storage Capacity up to
3.2 Million Liters
for Residential Housing
developments
and Villages**

Wall Structure	Zincalume steel panels 1.1mm – 6mm - high tensile	
	Yield strength	250
	Tensile strength	320
	Elongation on 80mm (60mm)	22
Steel Grade	G300 Zincalume	
Protective Coating	Zincalume (Zinc/Aluminium Alloy) AZ 150 - heavy coating	
Life Expectancy	50 Years	
Fastener Bolts	All bolts, nuts and washers are hot dip galvanised. M10 – M22 bolts and nuts on the tank shell. Inlets and outlets (ISO 2286 Part 2 1998) SABS specification.	
Outlet/Inlet	All outlet/inlet fittings are manufactured from galvanised pipes and flanges with SABS standards (Pipes SABS 62) (Flanges SABS 1123) for a longer life expectation. (No HDPE pipes or flanges are used)	
Guarantee	Upon completion of the contract Aquadam shall furnish the client, where applicable with a 10-year guarantee. This guarantee will be issued to the individual/company from whom the signed and/or official order was received.	
Manufacturing Time	Maximum of 3 weeks	
Delivery Time	4 – 6 weeks (Delivery on site)	
Installation Time	7 days maximum for the FT 263 (1.000m ³) capacity	
Site Preparation	Concrete ring beam is required and can be installed by Aquadam. No sand bed is recommended – sand can be corrosive due to chemicals in the sand.	

Potable Water Liner Specifications

Product Reference:	MC 305 - 700g			
Product Description:	Potable water bladder liner			
Product Characteristics:	High tenacity polyester yarn coated on both sides with PVC that contains no harmful or toxic chemicals. The material is approved to hold water or to come in contact with water (liquids) for human consumption. Approved by the Australian Water Quality Center, standard - AS/NZS 4020:2005 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER.			
End Use:	Water reservoir liners or dam bladder liners			
Product Dimensions:	Tolerance	Value	Unit	Test Method
Width	+/- 0.01	2.50	m	-
Overall mass	+/- 30	700	g/m ²	BS 3424.5
Roll length		50	m	-
Product Properties:	Tolerance	Value	Unit	Test Method
Tensile WMD	min.	2400	N/50mm	BS 3424: P4 M6
	AMD	2000		
Tear WMD	min.	350	N	BS 3424: P5 M7
	AMD	300		
Adhesion strength	min.	80	N/50mm	BS 3424: P M9b
Human consumption approved - Potable	Non Toxic			AS/NZS 4020 & SI - 5452
Fusion	Acetone	min.	5	min
	Ethyl Acetate	min.	10	min
Flex cracking	min.	250000	Cycles	
Base Fabric Properties:	Tolerance	Value	Unit	Test Method
Composition	Polyester	100%		
Fabric mass (g) per unit area	min.	157		SANS 79
Linear density (warp)		1100d/Tex		BS 3424
Linear density (weft)		1100d/Tex		BS 3424
Thread per centimeter (warp)	min.	7		SANS 86
Thread per centimeter (weft)	min.	7		SANS 86
Weave		Plain		

Solar Mixer for Storage Reservoir

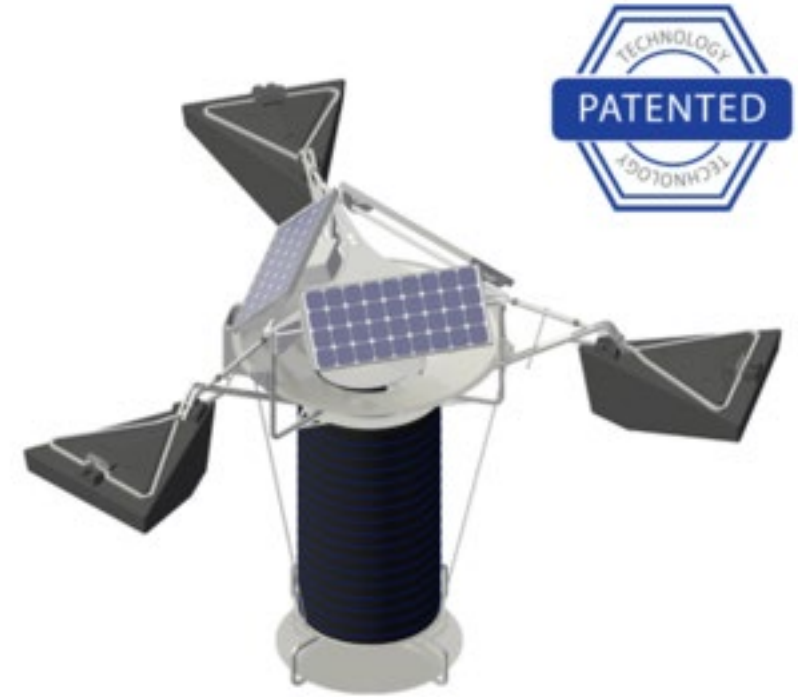
Technology Description:

Floating, solar powered, circulation equipment for potable water reservoirs. Day/night operation on solar only by utilizing a battery to store excess daytime power for nighttime operation.

Materials of Construction NSF/ANSI Standard 61:

316 stainless steel construction. Foam-filled high-density polyethylene (HDPE) floats. Thermoplastic rubber intake hose. HDPE strainer. The SB500PWc is NSF/ANSI Standard 61 Listed, includes NSF/ANSI 61, Annex G.

Life/Maintenance/Warranty: Expected 25-year life, minimal maintenance. Limited 2-year parts and conditional labor warranty. Limited 25-year photovoltaic module manufacturer performance warranty and a 10-year motor warranty.



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