GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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.
Water purity meets or exceeds World Health Organization Standards.

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

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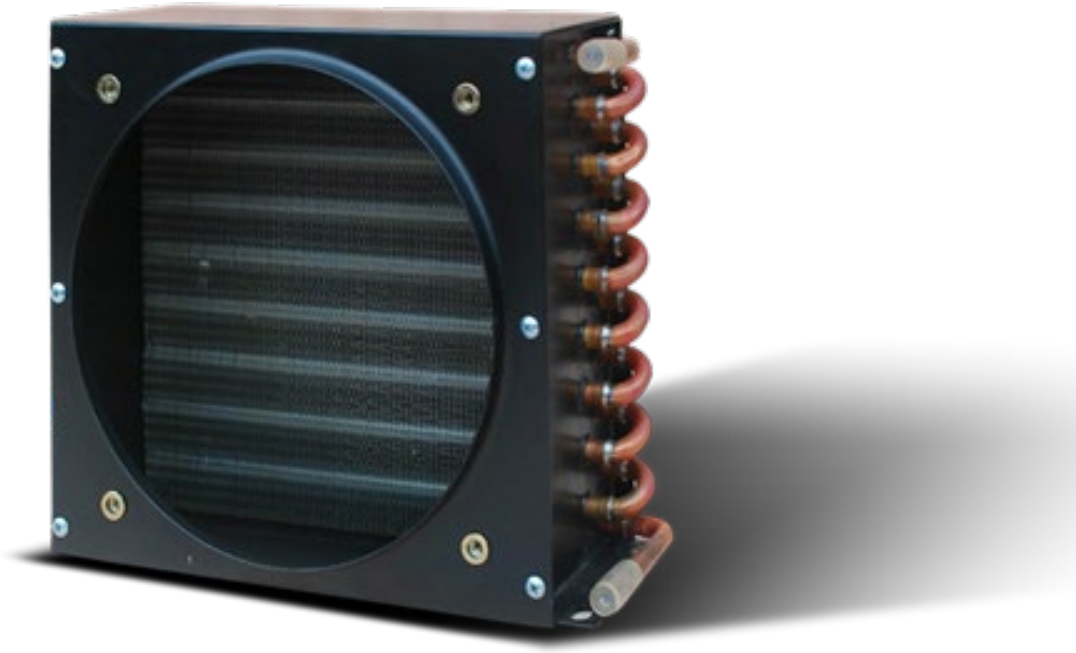
GTG Collection Process

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.

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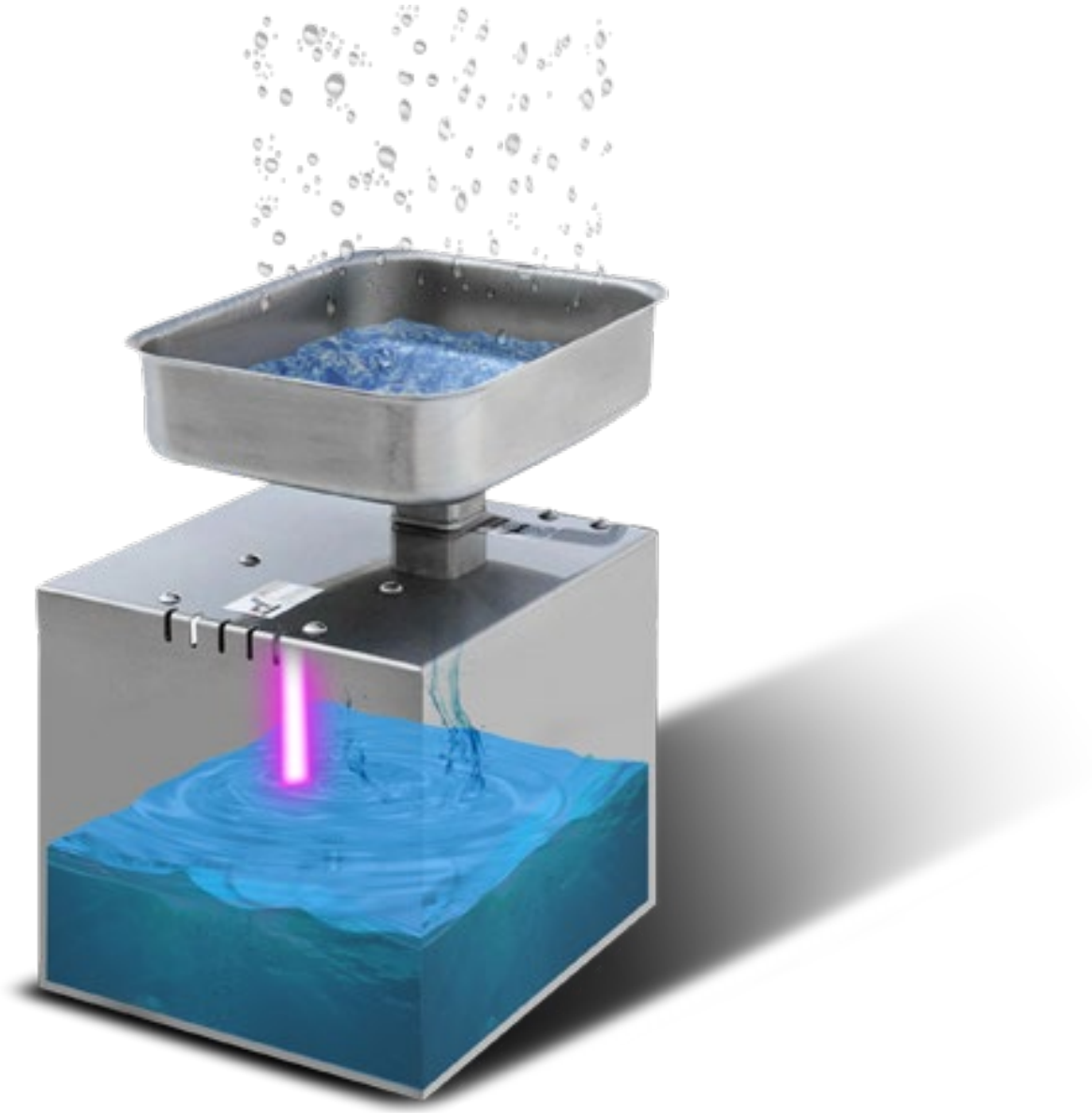
GTG Draining Process

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.

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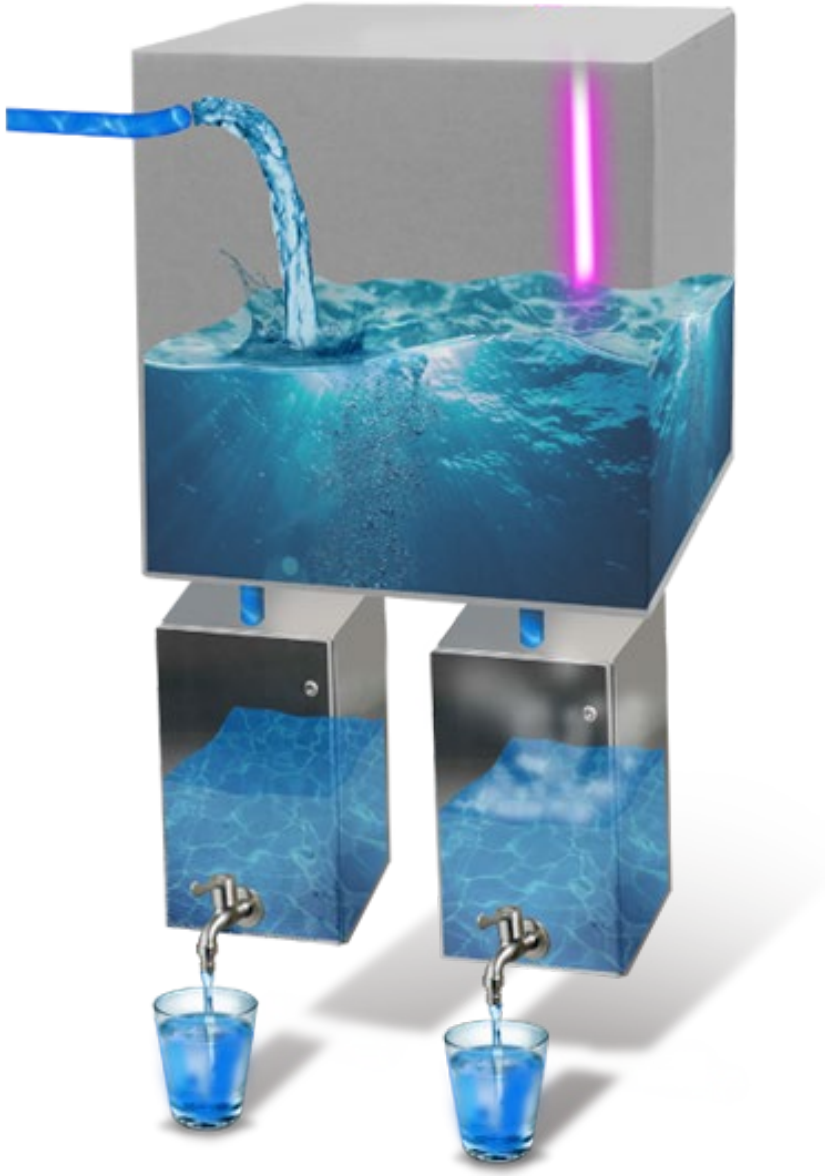
GTG Delivery Process



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™

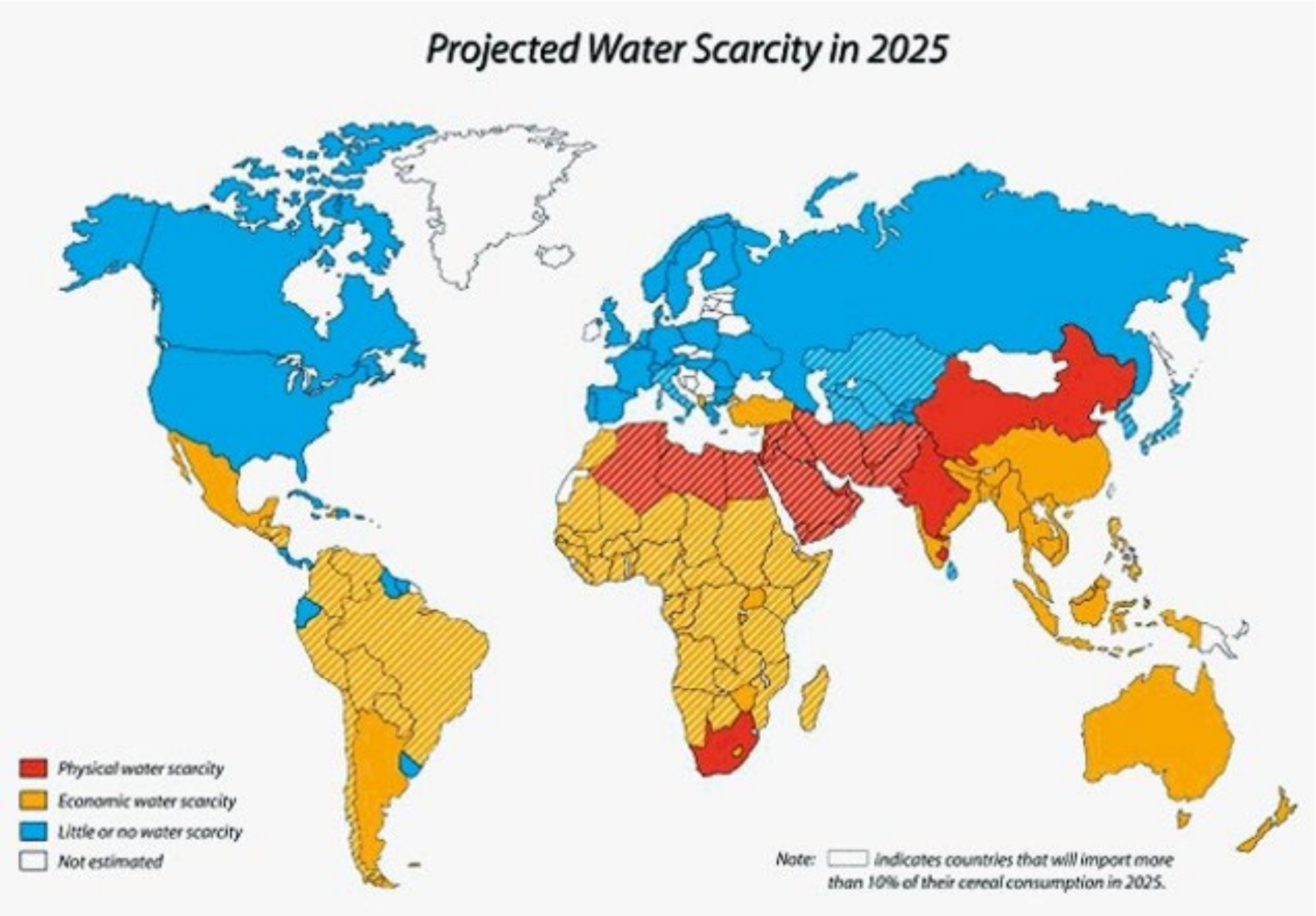
Eliminates bacteria and other microorganisms.

There can be added a dedicated mineralization filter if required.

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.



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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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

40 Liters per Day/ 10.56 Gallons per Day *Upright Unit*

Green Technology Global	10.56 Gal or 40 Liter AWG Specs
Supply Power	US AC 110V/60Hz; Europe 220V/50Hz
Power Rating	0.75kW
Real Working Power at 86 degrees F	0.7kWh
Max Day Power Usage 86 Degrees F & RH @ 80%	16.8Wh
Max Daily Water Production @ 86 Degrees F & RH @ 80%	10.56 Gallons / 40 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	16.97"L x 15.75"W x 42.9"H
Machine Net Weight	121.2 lbs
Annual Filter Kit	HEPA Air Filter PP Pre-Carbon Post-Carbon UF UV Mineralization

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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	64kW, 97.24Amps
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

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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 singed 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 (1.000m³) 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.	

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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/m²	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	min.	2000		
Tear	WMD	min.	350	N	BS 3424: P5 M7
	AMD	min.	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		

GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

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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ESG SOLUTIONS

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