



**RED** RENEWABLE  
ENERGY  
DESIGN

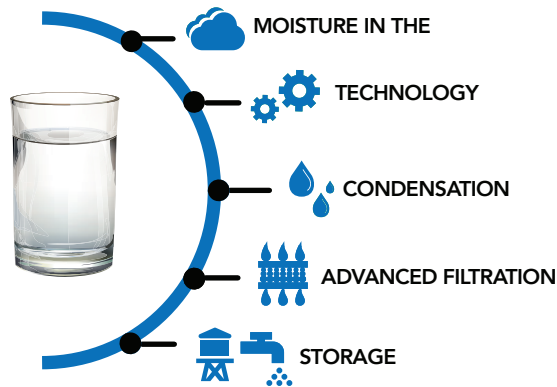
## ATMOSPHERIC WATER GENERATION

WE SPECIALISE IN THE DESIGN, MANUFACTURE, SUPPLY,  
INSTALLATION OF CONTAINERISED SOLUTIONS  
THROUGHOUT SUB-SAHARAN AFRICA.



RENEWABLE FUTURE™

A RED ENGINEERING BRAND



## OVERVIEW

Renewable Future’s vision is of a world where everyone has unlimited access to clean and affordable drinking water that is also kind to the environment.

Most companies today rely on plastic bottled water as their main source of drinking water – an unsustainable and expensive option that poses increased health risks and an exorbitant carbon footprint.

Renewable Future Water Management (RFWM) brings a sustainable, cost effective and healthy solution to supplying pristine drinking water to remote businesses, commercial buildings and the hospitality industry.

## HOW RF WATER IS MADE

### Atmospheric Water Generation (AWG)

Through a process called AWG, RFWM produces an unlimited supply of high-quality drinking water by extracting moisture out of the atmosphere where there is always a supply of humidity.

The technology harvests moisture from the air by drawing air into the water generator and cooling it, causing the natural moisture in the air to condense. The condensed water is collected and passed through an advanced filtration process that removes any impurities.

## Remote Telemetry

The availability of drinking water can be mission-critical to many businesses. To ensure peace-of-mind, RFWM provides remote telemetry to their clients, displaying water production, water stocks, machine productivity and up-time. Potential problems can be addressed as early as possible, thereby ensuring business continuity.

## Climate Control System (CCS)

For the technology to operate optimally, relative humidity of at least 40% and an ambient temperature of at least 18°C is required. In areas where the climate does not meet these levels, RFWM couples their revolutionary CCS to the technology to artificially create humidity in the air through the use of recycled grey water or harvested rainwater.

RENEWABLE FUTURE WATER MANAGEMENT (RFWM) will revolutionise water supply to your remote business, commercial building, hospitality site or home.

### REMOTE BUSINESSES

Remote businesses (bush lodges, mining exploration, oilrigs and ships at sea) have difficulty accessing drinking water – often requiring expensive transport of bottled water to these sites.

RF water is the solution to providing cost effective, pristine quality drinking water that has a reduced carbon footprint.

### COMMERCIAL BUILDINGS

Commercial buildings (colleges, schools, universities, office parks, industrial and municipal buildings) rely mostly on bottled water as their source of drinking water – a costly, often unhealthy and environmentally unfriendly option.

RF Water is a far healthier and cost effective solution to bottled water with a largely reduced carbon footprint.

### HOSPITALITY INDUSTRY

The hospitality industry (hotels, lodges, restaurants and conference centres) caters for the privileged population who expects the best.

RF Water is the healthy, environmentally friendly solution to intermittent and poor quality water supply to these sites which often hampers business productivity.

### DOMESTIC USAGE

Domestic houses rely on municipal water for all of their water requirements. As municipal water demand grows, the underlying infrastructure becomes stressed, leading to breakages and leaks, exposing residents to dirt, E.coli and other dangerous pathogens.

RF Water is a far healthier and cost effective solution to bottled water with a largely reduced.

## BENEFITS OF RENEWABLE FUTURE WATER

### Affordable water production

RF water is cost effective since logistic, waste management and transportation costs are removed.

### Superior quality

The water is produced from water vapour where waterborne diseases cannot survive and doesn't risk containing chemicals associated with plastic bottled water.

### Environmentally friendly

RF water is made on-site and piped directly to outlets reducing its carbon footprint.

### A sustainable solution

Atmospheric moisture is used to create RF water making it a sustainable solution amidst a growing water crisis.

### Financial savings

RF water will save you money over time when compared to other sources of drinking water.

### Health

RF water does not risk plastics leeching dangerous chemicals into the water.

### Remote telemetry

RF Water's remote telemetry ensures enough water to meet your needs

### Climate Control System (CCS)

CCS maintains prime humidity and temperature levels for consistent optimal performance.

## MODELS



## **GAA 100**

Production Capacity: **100 litres per day; 3 000 litres per month**  
Power consumption normal load: **9A (240V) / 900-1100W**  
Power consumption startup: **16A (240v) 2200W**  
Internal storage: **30 litres**  
External storage: **750 litres - 2 500 litres**  
Dimensions (AWG only): **900 mm x 760 mm x 830 mm**  
Operating parameters: **Humidity 35% - 100%, temperature 15-42 degrees**  
Placement: **Outside**  
Reticulation: **from AWG to external storage - 6mm / activated carbon and UV filtration**  
Placement: **from external storage to internal dispensing - 15mm pumped through a carbon block filter**

Payment options:

- Cost of electricity – 0.10c – 20 c/ litre
- Outright purchase – TBC
- Equipment life – 180 months (5 400 000 litres)

## **GAA 1000**

Production Capacity: **1000 litres per day; 30 000 litres per month**  
Power consumption normal load: **40A (340-420V) / 14kW**  
Power consumption startup: **up to 50 A (340-420V) 36 kW**  
Internal storage: **120 litres**  
External storage: **2 500 litres - 5 000 litres**  
Dimensions (AWG only): **2 900 mm x 1 200 mm x 1800 mm**  
Operating parameters: **Humidity 35% - 100%, temperature 15-42 degrees**  
Placement: **Outside**  
Reticulation: **from AWG to external storage - 15mm / activated carbon and UV filtration**  
Placement: **from external storage to internal dispensing - 15mm pumped through a carbon block filter**

Payment options:

- Cost of electricity – 0.10c – 20 c/ litre
- Outright purchase – TBC
- Equipment life – 180 months (5 400 000 litres)

## **GAA 500**

Production Capacity: **500 litres per day; 15 000 litres per month**  
Power consumption normal load: **20A (340-420V) / 7kW**  
Power consumption startup: **25 A (340-420V) 18 kW**  
Internal storage: **60 litres**  
External storage: **1 000 litres - 2 500 litres**  
Dimensions (AWG only): **1 500 mm x 1 200 mm x 1800 mm**  
Operating parameters: **Humidity 35% - 100%, temperature 15-42 degrees**  
Placement: **Outside**  
Reticulation: **from AWG to external storage - 15mm / activated carbon and UV filtration**  
Placement: **from external storage to internal dispensing - 15mm pumped through a carbon block filter**

Payment options:

- Cost of electricity – 0.10c – 20 c/ litre
- Outright purchase – TBC
- Equipment life – 180 months (2 700 000 litres)

## SERVICES

- Solar PV System Design & Engineering
- Commercial & Industrial
- Residential Rooftop
- Battery Storage Systems
- Energy Efficiency Consulting  
(ISO 50001, European Energy Manager)



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RENEWABLE FUTURE specialises in the design, manufacture, supply, installation of containerised solutions throughout Sub-Saharan Africa.

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## PRODUCTS

### MINIGRID



SOLAR POWER



WATER



GAS TO POWER



MULTIPURPOSE

### ENERGY MANAGEMENT



POWER



WATER



MEASUREMENT



BILLING OPTIONS

### WATER



TREATMENT



SEWAGE



AIR TO WATER



CONTAINERISED SOLUTIONS

### GAS TO POWER



CHP  
(COMBINED HEAT  
& POWER)



GAS GENSETS