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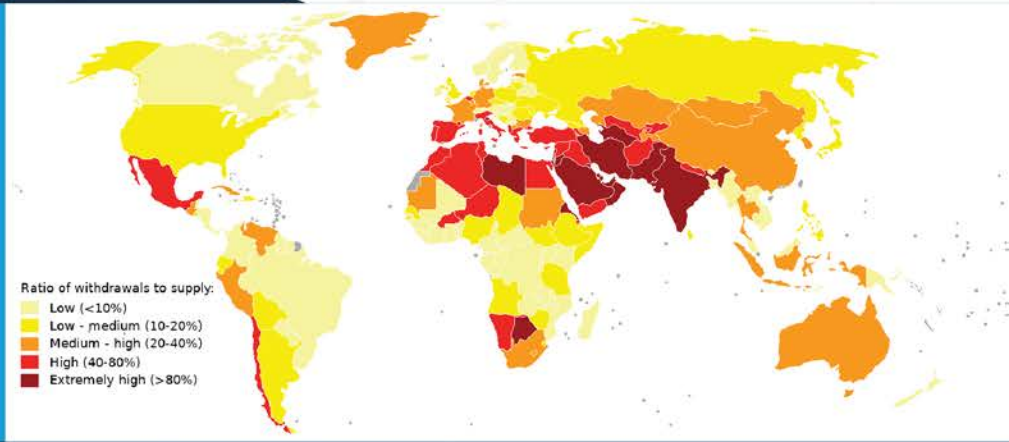
Global

SUSTAINABLE WATER-AIR FARMS

We specialize in the design and construction of high-quality Atmospheric Water Generators (AWGs) and Water-Air Farms. Our advanced technology is capable of producing thousands to millions of liters of water daily from the air, even in the most challenging environments with low relative humidity and high temperatures. Our systems are designed to serve a wide range of industries, providing reliable access to fresh water and pure distilled water for various industrial applications.

WORLD WATER STRESS MAP



info@allego.io | www.allego.io

Aquaer GENERATOR

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WATER IN THE AIR

Earth's Atmosphere: A Vast Reservoir and a New Source of Water

PARTNERSHIP

AQUAER's cutting-edge generators use atmospheric moisture to produce sustainable water sources, crucial in arid regions. This collaboration aligns with Blue Wings' commitment to innovative, environmentally conscious solutions, placing us at the forefront of water sustainability.

- Own patent - Smart and unique technology.
- Designed to function in Extreme Climate Conditions **(up to 50 Degrees Heat, 12% Humidity).**

Record-Breaking AWG Produces 20,000 Liters of Water Daily

Atmospheric Water Generator (AWG)

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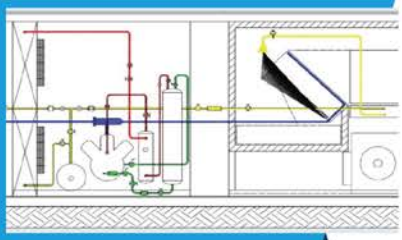

How Our AWGs Produce Water?

AQUAER GENERATORS smartly produce water by figuring out the best mix of air speed and production temperature. With data from fifteen (15) sensors in the generator, they find the perfect balance between making enough water and using the right amount of air.

Air to Water General Steps

- ✓ Clean air enters the generators, filtered for purity.
- ✓ The generator initiates a smart, unique, and fully automated process to convert filtered air into water.
- ✓ Produced water undergoes filtration and UV treatment.
- ✓ The result is fresh or industrial water.

AWGs Output

- ✓ Drinking Water (Fresh Water for Remote Areas, Bottled Water Production, and More).
- ✓ Industrial Water (Distilled Water for Green Hydrogen, Sustainable Aviation Fuel, and More).

Water-Air Farms

- ✓ Designing and engineering water-air farms to produce hundreds to millions of water per day, tailored to meet client specifications.
- ✓ Our Water-Air Farms can be customized to leverage your specific energy sources, including Electrical Power, Solar Cells, and Wind Turbines, for optimal energy efficiency and sustainability.

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Advantage:

- **European-Standard Quality:** Our devices meet high European standards, ensuring superior performance and reliability.
- **High-Quality Water Production:** We produce water suitable for both drinking and industrial purposes.
- **Energy-Efficient Design:** Our systems feature intelligent consumption control and remote monitoring, resulting in low energy consumption.
- **On-Site Water Production:** Water is produced directly at the project sites, eliminating the need for extensive piping.
- **Piping Cost Reduction:** By removing the necessity for long-distance water transfer, we significantly reduce costs associated with piping, water loss, and annual maintenance of transmission lines.
- **Mobile Water Farms:** Our water farms are mobile, allowing easy relocation between projects.
- **Decentralized Operations:** Dedicated water-air farms for each production section in a project ensure uninterrupted operations, even if one section experiences a water supply issue.
- **Low Maintenance Costs:** Utilizing air, a naturally clean source, for water production minimizes particle accumulation and scale build-up, enhancing system longevity and performance.
- **Environmentally Friendly:** Our technology is designed to conserve natural water sources and safeguarding the environment.

- Supply Water in Remote Areas
- Sustainable Agriculture
- Bottled Water Production
- Distilled Water for Green Hydrogen

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IDEAL FOR HYDROGEN PRODUCTION PLANTS

DISTILLED WATER:
Our advanced technology efficiently produces high-quality distilled water ideal for electrolysis processes, eliminating the need for any additional purification steps.

SCALE PREVENTION:
We effectively prevent scale accumulation in ducts and pipes, which can otherwise reduce the operational efficiency of systems over time, ensuring longer lifespan and reduced maintenance costs.

COST SAVINGS ON DISTILLATION:
Our method of water production is significantly cheaper than processing tap water to reach similar quality standards, offering substantial cost savings in water treatment.

INFRASTRUCTURE COST SAVINGS:
Reduce expenditure on the infrastructure required for water conveyance and treatment, as our technology lessens the need for extensive water management systems.

EFFICIENT BATTERY COOLING:
Our water is dispensed at temperatures below 10°C, ideal for cooling batteries in energy systems, enhancing performance and prolonging battery life.

NEGATIVE IONIZATION WATER:
The water produced through our defrosting process carries a negative electric charge, which helps encapsulate hydrogen molecules. This feature is beneficial for various chemical and industrial processes.

ENERGY EFFICIENCY:
Our systems require 20% less energy than traditional desalination plants and operate independently of stringent regulatory permits, making installation and operation more straightforward and less costly.

WATER ASSURANCE DURING DROUGHTS:
Guarantee a consistent water supply even during severe drought conditions with our technology, ensuring operational stability and avoiding conflicts related to water scarcity.

FREEDOM TO CHOOSE LOCATION:
Select any operational site, including arid or desert areas, without the usual constraints of water availability. This flexibility allows for cost savings on land and benefits from increased solar exposure.

NON-SUBSIDIZED LAND, SUBSIDIZED MACHINERY:
Take advantage of using non-subsidized land for your operations while benefiting from subsidized machinery, optimizing your financial investment.

ENERGY-GENERATING BY-PRODUCTS:
Leverage the excess heat generated from our refrigeration processes to produce additional energy, increasing overall efficiency and offering multiple possibilities for thermal energy use.

SUSTAINABLE WATER PRODUCTION:
Our system produces water through an environmentally responsible process that minimally impacts natural resources, emphasizing sustainability

USE OF NATURAL REFRIGERANTS:
We employ environmentally friendly refrigerants like Ammonia and CO2, which have high Coefficients of Performance (COP), enhancing the overall energy efficiency of our systems

CLOSED ENERGY CYCLE:
Our installations are designed to function as self-sufficient units, achieving 100% energy output with zero external inputs, effectively closing the loop on energy consumption.

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THE GREEN POWER

Turn Water Air Farms to Off-Grid Platforms.

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IN ACTION

- **INDUSTRIAL**
  For Responsible Businesses
  - ✓ Green Hydrogen
  - ✓ Sustaibale Aviation Fuel
  - ✓ Construction
  - ✓ Mining
  - ✓ Manufacturing
  - ✓ Agriculture
- **COMMERCIAL**
  Decentralized Access
  - ✓ Hotels
  - ✓ Schools & Universities
  - ✓ Offices
  - ✓ Supermarkets & Restaurants
  - ✓ Events

IN ACTION

- **EMERGENCY**
  Safety and certainty
  - ✓ Civilian / Military Camps
  - ✓ Rural Villages
  - ✓ Disaster Areas
  - ✓ Desertification Barriers
  - ✓ Field Hospitals
- **RESIDENTIAL**
  Autonomous
  - ✓ Villas
  - ✓ Small Farms
  - ✓ Remote Houses
  - ✓ Small Offices

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WE CAN RUN WATER-AIR FARMS FOR:

01 WATER BOTTLE INDUSTRY.

02 SUSTAINABLE AND MODERN AGRICULTURE.

03 REMOTE AREAS

04 DRINKING WATER

05 INDUSTRIAL WATER

Contact Us

T : +1-604-243-1912
OFFICE : 3148 Highland Blv.,
North Vancouver, British Columbia,
V7R2X6
info@allego.io | www.allego.io