

Pure Drinking Water from Air

aqua  
cloud





**A**vya Green Technologies was formed with a vision of developing green and sustainable solutions to primarily enhance the living quality of millions who live in rural areas around the globe. Additionally these technological solutions provide green alternatives to people in urban settings to meet their basic needs of power and clean drinking water.

Droughts, alarming water pollution and ever increasing and critical requirement for clean drinking water necessitate innovative and smart thinking for finding green and sustainable solutions.

Avya actively invests in developing green technological solutions to areas where there is no or little access to clean drinking water. Typical drinking water sources in rural areas are lakes, streams and ground water that are contaminated with fluoride, arsenic, iron, nitrates and pathogens.

Avya's innovative solution to address the aforementioned issues is a water generating unit that simply converts moisture in the atmosphere into clean drinking water. Mother Nature provides abundant and purest of water in atmosphere all around us. And this water vapor is replenished every day through hydrologic cycle making this water source both sustainable and green in nature.

A proprietary patented technology that uses innovative use of various scientific principles that culminated into a unique solution that generates water in most regions of the world. The solution eliminates the risk of municipal contamination and dependency on bottled water. It also reduces the carbon footprint by eliminating the need for transportation and storing the water.

## How Aqua Cloud Works:

A fan blower creates suction allowing fresh air from outside to flow into the system through an electrostatic air filter that removes most suspended impurities. Scroll compressors form the base of the refrigeration cycle that facilitates efficient heat transfer between the refrigerant and incoming moisture laden air. Air is then made to flow through a series of specially engineered heat exchanger surfaces that maximize the moisture extraction process.

Water condensed on these evaporator surfaces is then collected into a stainless steel tank and is made to pass through a sequence of filtration and water treatment systems before it is available for consumption. Minerals are added to the water, after which it is treated with ozone and UV to eliminate any pathogens rendering the water safe and potable.

Aqua Cloud water generating machines are made from the best quality materials and to the highest safety and manufacturing standards. Each of our products are tested and ensured to workmanship of highest engineering standards of excellence.

## Typical Application Areas:

- Remote rural areas
- Hospitals
- Educational institutions
- Shopping malls
- Mass transit stations
- Remote military locations
- Off shore platforms
- Places of worship
- Disaster management
- Resorts & Hospitality industry

## Benefits of Technology:

- Instantaneous solution (makes water within hour of turning on the unit)
- Does not require a water source
- Portable
- Easy to operate and maintain
- Economics
- Scalable
- No plumbing required
- Serviceability
- Sustainable
- Environmentally Friendly

## Product Specifications:

■ Model	Ac1000
■ Rated Capacity	Up to 1000 Litres/day
■ Working Conditions	22-45 deg C, >30% Relative Humidity
■ Power Rating	8Kwh
■ Electrical	380 V, 50hz, 3 Phase
■ Weight*	400 Kgs
■ Refrigerant	R22, R134a, R407c, R410a
■ Dimensions* HxWxL	1.6 x 1.2 x 1.2 m

\* Some product specifications may change during production

Marketed in India and Internationally by:  
**GLOBAL ENERGY COLLABORATIONS**

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**Manufactured under international manufacturing Practices by:  
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