Air Solar Water

Model 40-Animal

(40 ounces of water per sunny summer day)

Produce Water from Air Using Solar energy in remote locations and Deserts to support Animals and Wildlife

Our A2WH model 40-Animal delivers water even during extended drought when water holes, rain harvest, dew capture and guzzler systems dry out. It supports birds and small animals in areas where extended drought reduces wildlife populations and biodiversity.

- Ideal source of water that never dries out even during extended drought.
- Never requires water delivery
- Requires no ground water, no source water and no brine disposal
- Delivers maximum water during hot summer conditions when water is most needed.
- Uses solar energy to convert moisture in air into liquid water.
- Excess water can be used to support edible plants improving habitat.

206-601-2985 http://AirSolarWater.com info@AirSolarWater.com

Model:	40-Animal (Harvests Water from Air) AWG
Introduction:	Designed to deliver water in locations where grid electricity and fuel are not available. It is powered entirely from solar energy and has no dependency on external fuel. A2WH uses salt desiccants and solar heat without refrigerants making it environmentally friendly. Moisture is absorbed from cool night air using a desiccant salt and then converted to liquid water during the day. 40-Animal is shipped to the customer ready to operate with minimal installation. Ideal to support birds and small animals. Multiple units can be combined to provide sufficient water to support larger animals.
Rated Production:	Rated production 30 to 45 ounces per summer day with full sun. • Works in most locations even deserts like Texas, California, Dubai and Saudi Arabia. • Production will be lower in winter and on cloudy days when less solar energy is available. • Requires sunlight to operate. Production drops when sunlight is blocked or shaded by trees, buildings, hills, etc. • Estimated production is based on 8 hours of full summer sun. • Humidity rises as temperature drops so even areas with daytime humidity of 5% provide adequate humidity at night. Rated production assumes humidity during coldest two hours of night rises above 45% or lower rate above 25%.
Weight:	• Approximately 180 pounds plus packaging. • Packaging may vary depending on shipping destination and customer requests.
Patents:	• Patents granted in USA, Israel, Australia with others pending.
Water Outlet:	• ¼" or 1/8" nipple for flexible tube.
Glazing:	• Tempered Glass or Acrylic

40-Animal – Water Supply for wildlife during extended drought	

Size:	• A total of Solar thermal surface area approx. 0.75 square meter.
	• Additional space consumed by included 50-watt solar panel.
	• Minimum height 25”.
	  ○ (Total Installed height depends on solar tilt. Which is normally Latitude – 15 degrees. Minimum acceptable tilt is 5 degrees.
	  ○ Tilt that does not have the glazing at a right angle to incoming sunlight at noon will reduce production.

Options:	• **Poultry Float bowl feeder** • **Elevation pump** – Allows feeder to be mounted up to 6 foot above outlet. • **4 gallon water storage tank –** stores water from unit until animals consume it. • **Upgraded Solar Panel** – Adding larger PV panels allows system to run some blowers at greater speed. In some locations this can increase production but also tends to waste power. • **Rain Capture** – uses solar surface to collect rain and add to the water produced via sun. A great way to augment winter and spring production.
Limitations:	• Warranty is 5 years return to factory with option to pay for field service visit. Liability limited to product repair or replacement. • Moving components designed for easy field replacement. • Design life is 20 years but most components should last over 30 years. • Specifications are subject to change.
Caveats:	• Shipped dry to reduce shipping weight. It can require 4 to 5 days to fully charge with moisture from local ambient air.
User supplied parts:	• 12V deep cycle battery with at least 35 Ah storage. • Mounting posts and field fence to keep animals from stepping on or damaging system. • Extended water tubes when installing unit on hills above water outlet.
Main Difference to 83S	• Smaller, Lighter • Provided with wheels for easy mobility • Will not attempt to make water when ambient temperatures are below freezing • Deep sleep to protect battery during winter (we still recommend battery removal and full drainage in areas with deep freeze). • No heat recycle circuit • No NSF-61 coatings for condenser. Water not recommended for human consumption.

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