



SPECIAL APPLICATIONS

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**UP TO YOU sro - Bratislava
WE OFFER SOLUTIONS**

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SPECIAL APPLICATIONS
AWA03-M Mobile Vehicle System



AWA03-M is an advanced technology, created as a mobile machine for **Desert Applications**
Produces over 30 liters of water per day of drinkable water and can reach over 50liters under optimal climatic conditions of use.

AWA03-M is a high quality system designed to be robust and durable to meet the challenges of regularly being **transported in difficult areas and terrains**

2.5 kWp or 3Kwp on a total of 12 /14 square meters (6/8 panels).

Storage with six 48TL200 units of 9300Wh nominal for a total of 55800 Wh /24 h with absorption of 1.5kW per h as required (with use at approx. 70% of the battery pack capacity).

Available as mobile solution

AWA03X-M

AWA05W-M

The AWA's works from 7°C / 90% HR to over 50°C / 10% HR



SPECIAL APPLICATIONS

WATER FACTORY 1.000/5.000 M3 Day



This solution is for a large scale “**Water Factory**” can be designed and engineered to address particular needs of the customer, usually local Municipality or Communities.

One such model envisions production of **5.000 cubic meters of Water per day**, in a multi-storey structure, partially underground, with heights between 18 and 24 meters, with Water collection properly stored and distributed through legacy or new piping infrastructure.

This modular system will use our **AWA 500**, with an easy installation and maintenance costs.

The “**Water Factory**” can be build according to Architectural standards in line with the Environment and local regulations and can be connectet to a “Solar Facility” that would satisfy Green, Environmental, Social and Governance requirements.



SPECIAL APPLICATIONS

TECHNICAL WATER – H₂ GREEN HYDROGEN



Our AWA Modula systems produce:

- ✓ Distilled water for washing
- ✓ Demi Water up to 2M Ω which suitable for industrial & food applications
- ✓ Mineral Free Plus Water up to 15M Ω , suitable for industrial applications and, particularly, food, pharmaceutical, cosmetic and automotive purposes, perfect for the most efficient production of **Green Hydrogen**.

This solution involves combining our AWA systems with photovoltaic or power generation systems from wind or sea waves and integrating with storage and purification systems to obtain water that meets the specifications required for the most efficient separation of Hydrogen from AWA water.

AWAs solutions harness energy to produce water and Hydrogen without destroying or reducing groundwater, river and lake water available to humans.

This solution allows for a closed loop: clean, renewable, sustainable and green energy capability integrated into the ecological system of the user.



SPECIAL APPLICATIONS

Technical Water - PV Clean Panel Use



AWA Systems produce the finest Distilled Water that can be used to clean solar pannels/photovoltaic systems, increasing the production and efficiency surfaces in remote areas that are particularly subject to gathering contaminants that reduce energy production.

OUR AWA's does not require use of detergents that have serious negative Environmental effect.

The electrical conductivity required is 100 μ S, data beyond which persistent shadows are created on the panels leading to interruptions and breakages thereof.

Common fresh water, from groundwater or surface or desalinated water, has a regime much higher salt content and requires detergents or chemical products to support products banned by many countries as they are polluting.

OUR production does not create any pollution or other Environmental challenges, **does not require incremental costs** and, associated with the production of Drinkable Water, eliminate the need of transports of “Technical and Drinkable” Water with consequent pollution from Hydrocarbons and CO₂.



SPECIAL APPLICATIONS

Agriculture & Greenhouse



AWA systems, integrated with greenhouses, allow to control the internal humidity producing pure water to be used for irrigation or other agricultural purposes.

These systems can be used to quickly create dedicated irrigation systems for deserts and climate-challenged areas and can be combined with renewable energy systems to reduce operating costs and Environmental impact.

The technology is also suitable to be installed in farms not served by complex distribution infrastructures, outside of Population Areas or located on Islands.

We are able to design dedicated systems for vertical farm/greenhouses or irrigation plants in remote area, using machines with low water production and low energy consumption using renewable energy and irrigation system properly sized.



SPECIAL APPLICATIONS

AWA-H BIM

Building Integrate Machine



AWA-H BIM produces from 2,500 to 5,000 of water per day. The BIM version, integrated in a building, in addition to producing water, at **no extra cost also produces thermal energy contributions to heat water to over 40°C and cool air up to 24°C degrees C with 40% HR.**

This provides significant energy savings resulting in net zero or negative costs for the water production and a rapid return on investment.

AWA-H BIM version provides for the integration of the contributions of heat and cooling with the systems of the particular building, which could be a hotel, residential or commercial building, a gym or a pool.

The thermal contributions are inserted in series to the normal heating and cooling systems of a building and work together to provide cost savings and to energy efficiencies.

It is designed and built with high quality criteria for a life cycle of more than twenty years with 24/7 operations, working from 7°C / 90% HR to over 50°C / 10% HR.



SPECIAL APPLICATIONS

AWA DOMO 50-100



AWA DOMO System delivers between 500 and 1.000 liters/day from a “Water House” with integrated dispensers, storage and production capabilities.

It allows the integration with card or mobile phone or credit card dispensers or simply with dedicated cards for water withdrawal or other comfort food or technological items by the local population.

Born to be used in remote areas not served by any infrastructure or for installations in Parks, Golf Courses connected with renewable energy systems as primary source.

It DOES NOT require any infrastructure, is easily manageable and can be connected via satellite or via internet for a remote management.

It is assembled and tested in our factory and than installed ”on site” on “fast track basis”.

Can be built in various materials according to customer specifications and needs: metal, wood or any other Environmentally friendly material.



SPECIAL APPLICATIONS

AWA - MARINE



AWA-MARINE system produces from 30 to 100 liters of Water per day for use on the sea in boats and yachts.

OUR vision is the offer bigger versions, to be installed on Cruise ships, to produce Drinkable Water, Technical Water and Pure Demi Water to produce H2 as Propellant.

These high quality systems, are built with materials resistant to the working environment, they provide the finest quality drinking water while, at the same time, preserving limited space otherwise used for storing bottles with the additional benefit of avoiding plastics.

Easy to use, can be integrated into the design of a boat - yacht according to the customer's requirements.