



Why Watercone®?

For ecological, economical, geographical and / or political reasons, 40% of the world's population (2.8 Billion humans) has no access to clean potable water!





In a most simple manner, the Watercone® – technically a solar still – enables anyone, to generate potable water from sea water or brackish water, on the basis of solar-irradiated evaporation/condensation.

This invention represents a conical, self-supporting and stackable unit made from transparent, thermoformed and FDA-approved polycarbonate (same as 5 gallon water cooler bottles) outfitted with a screw cap spout at the tip and an inward shaped circular collection trough at the base. Along with it comes a black plastic base pan, which holds the sea water or brackish water. Technically speaking it is a solar still.

5 Reasons for global distribution of the Watercone®

- Ultimately, much cheaper than bottled water (generated from free sea water)
- Absolutely lightweight, low concept and low tech (any child starting age 7 can handle and use it)
- Perfect for coastal dwellers (hundreds of millions are in a daily battle to source minimum quantities of potable water)
- Teaches independence (enables mobility and fosters self-responsibility for own water generation)
- Creates jobs (water merchants can farm them; affordability through micro-credits)

Function

	1. Users place the base pan under direct sunlight, fill the base pan with saltwater, float the cone on top of it and wait for the sun to evaporate the saltwater.
	2. The water condenses onto the inner wall of the cone and drops trickle down into a collection trough at the base of the cone.
	3. Once evaporation has ended, the cap is unscrewed and the cone is flipped upside down so that the desalinated water can then be poured out into a clean vessel.
	4. Harvest: under ideal conditions up to 1.7 Liters (or nearly 2 Quarts) of potable water in 24 hours.

For questions regarding Watercones – for USA, Canada, Mexico and Caribbean Islands without French Territories – please contact:

Mrs. Laurie Anderson
Tel: +1-801-763-5026
Email: anderson@mage-watermanagement.com



Evaporation based solar desalination systems

For conversion of all salt waters into drinking water

MAGE WATER MANAGEMENT NORTH AMERICA
1657 South 580 East
American Fork, UT 84003
USA

www.watercone.com
www.mage-watermanagement.com

A MAGE GROUP member
www.mage-holding.com



Why SAL-MEH?

Only large cities or metropolitan clusters facing water shortages get the benefit of being supplied by large, powerful and reliable desalination plants – with capacities from 5'000 up to 120'000 m³ per day. Management of this water and its distribution to consumers obviously needs an equally reliable and powerful management & distribution network.

These types of outputs are not feasible for dispersed settlements on the countryside. For the supply of decentralised, remote locations – even with low infrastructure or without permanent grid connection – MAGE WATER MANAGEMENT has developed reliable, autonomous and self-sufficient MEH desalination systems.

The water produced through the MEH (Multi-Effect-Humidification) process is fresh water in its purest form: condensate with virtually no dissolved solids (minerals, metals, etc.), free of any bacteria or any other organic contamination.



Advantages in using MEH-Technology

- Low temperature heat of approximately 85°C (185 °F) is used for evaporation
- The absence of moving parts within the distillation chamber, ensures low maintenance requirements
- The self-adjusting natural convection loop enables best energy recovery ratios (up to 8 fold)
- Sophisticated geometrical design allows easy maintenance and optimum performance at the same time
- No pre-treatment of raw water is needed. The process is insensitive to high salt contents.
- Modular set-up
- Low maintenance requirements and maintenance costs for all parts

Yield capacities of fresh condensed water per day

MiniSAL™ 1'000	1'000 Liters (approx. 265 Gallons)
MidiSAL™ 5'000	5'000 Liters (approx. 1,320 Gallons)
MegaSAL™ 10'000	10'000 Liters (approx. 2,650 Gallons)

Field of application

- Non-Government Organizations (NGOs)
- Tourism related applications
- Public authority water supply
- Private usage
- Corporate charity
- Defense

Comparison MEH with Reverse Osmosis (R.O.):

Type of Technology	MEH	R.O.
Technology complexity	low	high
Engineering layout level	high	extensive
Electrical energy requirements	low	high
Transformation of high-saline raw water into drinking water	in just one run	multiple stages needed
Quality of the generated water	clear fresh water	< 1000 ppm water; chemical residuals possible
Maintenance requirements	very low	very high
Pre-treatment	none	bulky
Spare part costs	very low	high
Personnel required	unskilled labor	expert needed

For questions regarding SAL-MEH-Systems please contact:

MAGE WATER MANAGEMENT GMBH
Triebstrasse 3
80993 Munich
Germany

Dr. Hendrik Mueller-Holst:
Tel: +49-(0)89-147296-17
Fax: +49-(0)89-147296-72
Email: mueller-holst@mage-watermanagement.com