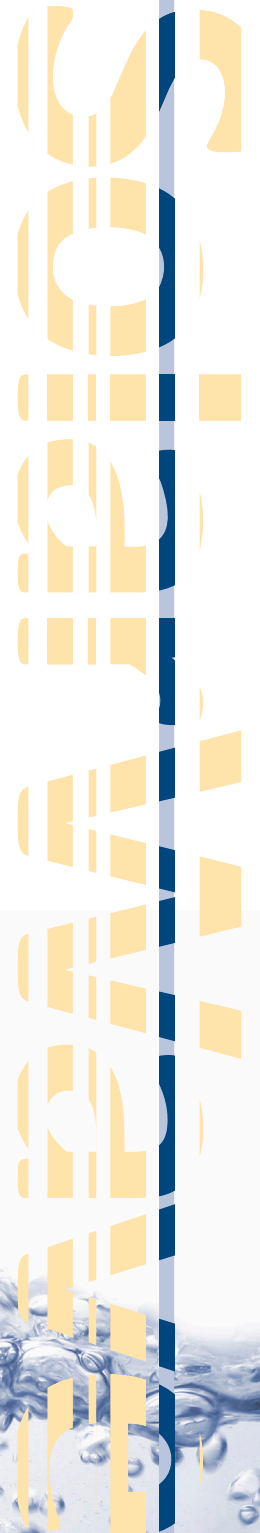


SolarWave
www.solarwave.se

Solar powered water desalination system

November 2011, version 1



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System specification

November 2011, version 1

Solar powered, high capacity, fully mobile and reliable water desalination system for brackish water.

The solar powered water desalination system is a self-contained system. The environmentally-friendly technique of supplying power to the unit makes it uniquely suitable for both itinerant and stationary uses.

GENERAL DESCRIPTION

The system consists of two main parts: a photovoltaic driven power station and a water desalination unit.

The photovoltaic unit provides clean and reliable electrical energy. The system has a 12 volt output that provides clean, reliable electrical power for all needs, e.g. electrical light, charging mobile phones, laptops, radios and others.

The water desalination unit works on the principle of reverse osmosis. It eliminates salt from brackish water to provide clean and safe drinking water which meets the World Health Organization's and Health Department's standards for potable water.

The system itself is very easy to use with virtually no installation required.



TECHNICAL SPECIFICATIONS

Solar Power	170 W
Battery capacity	120 Ah (not included)
Electrical output	12 V / 7.5 A
Water cleaning capacity	100 litres/hour
Current	15.6 A
Weight	18 kg
Dimensions	560 x 590 x 160 mm
Recommended max water input temperature	40°C

Maintenance

Filter	Replace when needed, in case of low water flow
Membrane Daily Maintenance	Thorough flush
Membrane Yearly Maintenance	Thorough cleaning with citric acid

Spare Parts

Fuses: Standard car fuses

Standard cotton filter

Safe water – Anytime – Anywhere
Creates the foundation for
Sustainable Development and Health