



NORDTECH
CONSULTING & TRADING COMPANY

Solar Water Desalination System Facts Sheet



GENERAL DESCRIPTION:

The solar powered water desalination system is a self-contained system. It's a small desalination system solely powered by the sun.

The environmentally friendly technique of supplying power to the unit makes it uniquely suitable for both itinerant and stationary uses.

The water desalination unit works on the principle of reverse osmosis. It eliminates salt from brackish water to provide clean and safe drinking water.

Reverse osmosis is highly effective in removing several impurities from water such as total dissolved solids (TDS), turbidity, asbestos, lead and other toxic heavy metals, radium, and many dissolved organics. The process will also remove chlorinated pesticides.

OPERATING SPECIFICATION:

Reverse osmosis is the most economical method of removing 90% to 99% of all contaminants.

The system eliminates 99.9% of all bacterial contaminants, and provides clean, safe drinking water.

RO membranes are capable of rejecting practically all particles, chlorine, odor and organics >300 daltons molecular weight (including pyrogens) from brackish water for high quality potable water production.

Membrane specification	Constraints
Max Permeate	100 l/h
Max Operating Temperature	40°C
Operation Pressure	0-25 bar
PH Range cont. Operation	2-11
Free Chlorine Tolerance	<0.1ppm
Salt Rejection	99%
Fluoride	Upto 75%

SYSTEM SPECIFICATIONS:

Solar Power	170W
Battery Capacity	120 Ah
Electrical Output	12 V / 7.5 A
Water Cleaning Capacity	100 liters/hour
Current	15.6 A
Weight	18 kg
Dimensions	560 x 590 x 160 mm
Water Input Temp.	40°C

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.

Our brackish water desalination systems are mobile, robust and light weight.

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