

NIMBUS CSW-500

Portable SWRO - Seawater Desalination System



- ▶ 500 gpd seawater desalination
- ▶ Portable SWRO - seawater desalination system built into rolling case
- ▶ External submersible pump draws water from seawater or brackish source
- ▶ System operates at a low 80-120 psi pump pressure
- ▶ Internal brine energy recovery pump pressurizes the membrane vessel for high TDS desalination
- ▶ DC power from batteries, fixed solar panels or flexible solar blankets
- ▶ AC power or AC generator with included DC converter
- ▶ External quick connect ports and gauges

Applications

- ▶ Disaster relief
- ▶ Humanitarian assistance
- ▶ Brackish water desalination
- ▶ Temporary shoreline encampments
- ▶ NGO staff support
- ▶ Dockside water vending
- ▶ Seasonal remediation of seawater incursion into coastal aquifers



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System Specifications

Model Number	CSW-500
Capacity (gpd)¹	500
Membrane Type	Thin-film, 2.5" x 21"
Number of Membranes	2
Membrane TDS Rejection	99.5%
DC Electrical Supply	48 volts, 9 amps (Max 50 volts)
AC Electrical Supply	300 watts (Max 600 watts)
Pump	Lorentz submersible
Dimensions	32.5" x 20.5" x 13.5"
Weight	85 lbs.

¹ CSW-500 production rate based on 24 hour generator power. Solar powered production rate is dependent on weather and solar isolation factors.

Operating Specifications

Feed Pressure	80-120 psi
Max Temperature	110°F
Max Chlorine (continuous)	<0.1 ppm
Max Total Dissolved Solids	48,000 ppm
Silt Density Index	<5 SDI
Turbidity	<1 NTU
pH Range	2-11
Iron, Sulfide, Manganese	0 ppm

CSW-500 requires filtration prior to the system to remove particulates. Prefiltration must be maintained properly to ensure productivity.

Regular acid/alkaline cleaning is required to reduce membrane fouling. Please see the CSW-500 manual for a recommended cleaning schedule.

