

NIMBUS CRO-1000

Portable Reverse Osmosis System



Applications

- ▶ Disaster relief
- ▶ Humanitarian assistance
- ▶ NGO staff support
- ▶ Water vending

Options

- ▶ Pretreatment for high turbidity
- ▶ Collapsible or rigid storage tanks
- ▶ Point-of-use carbon filtration

- ▶ CRO-1000 system is designed for field use under challenging conditions
- ▶ System is built into a unbreakable, watertight rolling case
- ▶ Produces 1,000 gpd of purified, reverse osmosis water
- ▶ External, submersible pump may be used on a variety of feed sources including shallow wells, lakes, streams or holding tanks
- ▶ DC power from batteries, fixed solar panels or flexible solar blankets
- ▶ DC power controller enhances solar energy utilization
- ▶ AC power or AC generator with external DC converter
- ▶ High capacity, gradient depth prefilter
- ▶ Carbon block postfilter
- ▶ External quick connect ports and gauges
- ▶ Light enough to be moved by one person - 2 person lift.

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System Specifications

Model Number	CRO-1000
Capacity (gpd)	1,000 ¹
Membrane Type	Thin-film, 4" x 21"
Number of Membranes	1
Membrane TDS Rejection	98%
Prefilter	10" gradient depth
Postfilter	5 micron carbon block
DC Electrical Supply	24 volts (Solar Max. 50 volts)
Supply Pump	Submersible
Recirculating Pump and Motor	330 gph, 3/4 HP
Dimensions	15"H x 20"D x 29"L
Weight (lbs)	100

¹CRO-1000 production rate based on 24 hour generator power. Solar powered production rate is dependent on weather and solar isolation factors.

Turbidity Pretreatment Option



External turbidity pretreatment may be added for removal of particulates and suspended solids prior to the system.

Operating Specifications

Incoming Feed Pressure	40-80 psi
Max System Operating Pressure	150 psi
Max Temperature	100°F
Max Chlorine (continuous)	<0.1 ppm
Max Total Dissolved Solids	5,000 ppm
Hardness	<15 grains
Silt Density Index	<5 SDI
Turbidity	<1 NTU
pH Range	2-11
Iron, Hydrogen Sulfide or Manganese	0 ppm

