

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
- ▶ AC power or AC generator with optional DC converter
- ▶ High capacity, gradient depth prefilter
- ▶ Carbon block postfilter
- ▶ External quick connect ports and gauges
- ▶ Light enough to be deployed by one person

NIMBUS CRO-1000

Portable Reverse Osmosis System

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	48 volts, 9 amps (max. 50 volts)
AC Electrical Supply	115v-220v, 50-60 Hz
Motor Rating	3/4 HP
Pump	330 gph
Dimensions	15"H x 20"D x 29"L
Weight (lbs)	85

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

Feed Pressure	100-120 psi
Max 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

