

**NDX SERIES**  
**Seawater Desalination Systems**  
**200 – 1500 Gallons/Day**

**Direct Drive Systems**

These high quality reverse osmosis watermakers produce superior water from seawater and brackish water. The basic design of these machines makes it uncomplicated to install and easy to operate while offering performance and durability at a value price. This equipment finds desalination application on land as well as in many marine applications.

Model #	Output	Feed/Flow	Pwr (KW)	Membranes
NDX200	200 GPD, 32 LPH, 75 TPD	2.5	2.0	1
NDX500	500 GPD, 79 LPH, 1.9 TPD	2.5	2.0	1
NDX800	800 GPD, 126 LPH, 3 TPD	4.2	3.2	2
NDX1200	1200 GPD, 190 LPH, 4.5 TPD	4.2	3.2	3
NDX1500	1500 GPD, 236 LPH, 5.6 TPD	4.2	3.2	4



**NDX200, 500, 1200, 1500 GALLONS/DAY WATERMAKER**  
**REVERSE OSMOSIS SEAWATER DESALINATION SYSTEMS**



The NDX water purification system has been developed for efficiency and reliability with needs of the commercial user of water purification in mind.

## STANDARD SYSTEM FEATURES

### Prefiltration

- ✓ 20 and 5 micron cartridge prefilter to remove particulate matter.
- ✓ Filter housing designed for easy filter change.

### Booster Pump

- ✓ 316 SS low pressure pump of centrifugal design.
- ✓ Ensures positive water pressure to unit, even if machine is installed above the water line.
- ✓ Close coupled to totally enclosed motor to withstand saltwater environment.

### High Pressure Pump

- ✓ High pressure pump close coupled to a high efficiency totally enclosed motor for corrosion resistance and low maintenance.
- ✓ Pump head placed for easy service and inspection.
- ✓ Ceramic plunger designed with nickel aluminum-bronze head for long term durability.
- ✓ Pulsation Dampener

### Reverse Osmosis Membrane – Pressure Vessel Assembly

- ✓ Spiral wound, polyamide, thin film composite reverse osmosis membrane representing state of the art technology.
- ✓ High water purity with membrane rejection of 99.6%.
- ✓ Membrane is designed for long life with easy cleaning.
- ✓ Easy to change plug assembly with long life and durability.
- ✓ Membrane is enclosed in fiberglass pressure vessel with rating to 1,000 psi.
- ✓ High pressure 316 SS fittings.
- ✓ High pressure components rated at 2 time's maximum operating pressure.

### Instrumentation & Protective Features

- ✓ Easy to read gauges including product flowmeter and low and high pressure gauges.
- ✓ Totalizing hour meter.
- ✓ On/Off switches with built in motor overload protectors.
- ✓ Automatic high pressure cutoff switch.
- ✓ Salinity controller to automatically direct product water overboard when non-potable or to the tank when potable.
- ✓ High water quality indicator lights.
- ✓ All water tight electrical components. (NEMA 4)
- ✓ Splash resistant electrical enclosures.
- ✓ Brine check valves ensures only first quality water to storage tanks.
- ✓ Glycerine filled 316 SS high and low pressure gauges for long life.
- ✓ Touch screen easy to operate PLC.
- ✓ Remote monitoring capability via internet.

### Frame

- ✓ Electropolished stainless steel cabinet for lifetime of durability and corrosion resistance.
- ✓ Open design for easy maintenance.
- ✓ Unitized in integrated components for easy maintenance.
- ✓ Tabs/Holes for secure mounting.

### Connections

- ✓ Food grade tubing for contact with potable water.
- ✓ Stainless fasteners to resist corrosion.

### Membrane Care (optional)

- ✓ Backflush system to supply membranes upon shutdown.
- ✓ Membrane cleaning valving and controls to facilitate cleaning of membranes.

## SPECIFICATIONS

Product Output:	200, 500, 800, 1200 or 1500 Gallons/Day (Based upon 36,000 ppm TDS at 25°C, 850 psi under ideal conditions)
Minimum Salt Rejection:	99.6%
Feed Water Pressure:	Minimum – Flooded, Maximum – 25 psi
Maximum Operating Pressure:	950 psi
Feed Water Temperature:	Minimum - 2°C (4°F) Maximum - 45°C (113°F)
Maximum Feed Water Salinity:	38,000 ppm TDS
Filtration:	20 and 5 micron particle size
Connections:	1" NPT Feedwater, 1" NPT Wastewater, ½" NPT Product
Approximate Dry Weight:	250 lbs.
Dimensions of R/O Unit:	52" L x 25" W x 19" H
Dimension of Booster Pump:	9" diameter x 18" L
Standard Crate:	62" L x 36" W x 32" H

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