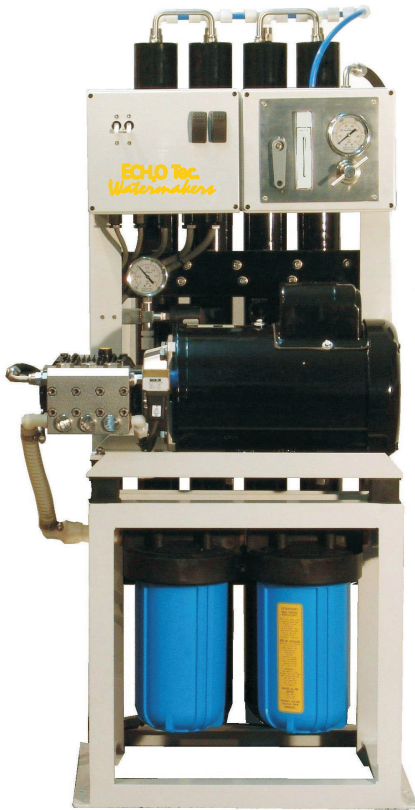


ECH₂O Tec.™ Watermakers

**All the freshwater you need
with peace of mind**

The ECHO Tec. PRO series is designed for ultimate reliability and easy operation. It supplies small to medium sized commercial vessels and large yachts with 20 to 60 gallons / 75 to 227 Liter per hour of high quality potable water.

The modular bulkhead mount system or the self-contained vertical framed system with a footprint of only 24"x 22" are space saving and easy to install.



ECHO Tec. RO Seawater Desalination Systems

Specification and basic operating data - PRO Series

Model:	500-PRO-1	900-PRO-2	1200-PRO-3	1500-PRO-4
Production gallons/hour-day:	20 - 480	38 - 912	38 - 1200	60 - 1500
Production liters/hour-day:	75 - 1810	143 - 3450	190 - 4540	227 - 5670
Recovery:	10%	18%	23%	28%
Product / Permeate TDS:	220ppm	220ppm	220ppm	220ppm
Recommended RO Pressure:	800psi	800psi	800psi	800psi
Raw Water Flow gal/min:	3.6	3.6	3.6	3.6

Electrical Power Requirements

Wall Mount System (2HP Motor):	115/230V 60Hz - 230V 50Hz single phase	9.2apms at 230V
Vertical Mount System (3HP Motor):	115/230V 60Hz - 230V 50Hz single phase	11.2amps at 230V
	208 - 230/460V 60Hz three phase	5.5apms at 220V
	220/380/440V 50Hz three phase	3.8amps at 380V

Wall Mount System (semi-modular):	US\$ 5270	US\$ 6220	US\$ 7180	US\$ 8330
Vertical Mount System (self-contained):	N/A	US\$ 6670	US\$ 7620	US\$ 8670

Scope of Components

Aluminum wall mount frame with shock mounted Ti high pressure pump and electrical and flow control panels
 Pressure vessel rack with 1-4 thin film composite RO membranes or
 Aluminum vertical frame with shock mounted Ti high pressure pump, control panels and RO vessels
 2 Filter housings with pleated polyester cartridges, 5 and 20 microns, 4 1/2" x 10"
 Magnetic drive seawater boost pump 1/3HP
 Manual fresh water flush system

1 Set of instruments

The desalination system is equipped with all necessary instrumentation, for the control and supervision of the operation of the unit. The instrumentation includes:

Pressure Gauges:	Feed water, system entrance (316SS glycerin filled)
	Feed water, high pressure pump entrance (316SS glycerin filled)
	RO pressure, (316SS glycerin filled)
Flow Meter:	Product discharge
Conductivity:	Digital product water quality monitor - ppm TDS

The following automatic emergency shut off functions are provided:

Low feed water pressure (e.g. seawater intake or pre-filters clogged)
 High RO pressure
 High product water salinity
 Tank full (float switch optional)

ECHO - MARINE LTD.

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