



## SPRO

### REVERSE OSMOSIS SYSTEM

- Ideal in any process water application
- Treats feed water up to 2500ppm TDS
- Produces up to 28,000 lpd
- Meets all relevant Aus. & NZ standards

#### FEATURES:

- (FRP) Fibreglass Reinforced Plastics high pressure membrane housings
- Schedule 80 pipe work
- S/S control valves and pump
- PLC based micro-processor controller with touchscreen
- Low feed water pressure sensor
- Permeate quality sensor & conductivity display
- Storage tank level sensor input (4-20mA)
- Flow rotameters and pressure gauges for monitoring
- Adjustable pressure regulator valve
- Programmable permeate flush facility
- Additional membranes available (300-1200 litres/hour – Standard Model)



Ideal for use in any process water application, the SP-RO Reverse Osmosis (RO) System has particular application in the food and beverage processing industries, in wine and dairy processing for wash down and cleaning and in the hospitality industry where calcium deposits and corrosion from dissolved particles can reduce the life of expensive equipment dramatically.

Designed and made in Australia, the system is cost-effective, treats feed water up to 2,500 parts per million (ppm) Total Dissolved Solids (TDS) and meets all necessary Australian and New Zealand standards. The system is flexible and scalable. The SP-RO-1 uses a single RO membrane to produce 300 litres per hour (7,200 litres per day). The addition of extra housing and membranes will add an additional 300 litres per hour (7,200 litres per day) to its output, up to a maximum 1200 litres per hour (28,800 litres per day).

Monitoring of feed water pressure, RO permeate quality, chemical dosing tank level (if fitted), and permeate storage tank level is performed by the Programmable Logic Controller (PLC) and visible on a 5" colour touchscreen. This can be complemented with the addition of a HOBO 4-channel data logger to increase the number or frequency of monitoring points - Up to 12 months operating data is captured and downloaded, providing a permanent record of system performance, and a Global System for Mobile Communication (GSM) alarm dialler to enable system alarm notification to be automatically sent to up to 5 maintenance personnel or Continental Water Systems service personnel.

The SP-RO incorporates high pressure wave cyber type pressure vessels using high performance GE membranes. Wetted surfaces are schedule 80 plastic, stainless steel or brass.

Specifications / Models	SP-RO-1	SP-RO-2	SP-RO-3	SP-RO-4
Capacity (litres/hour) at 25°C	300	600	900	1200
Pre-filtration (standard)	20" filter housing with 2.5" x 20" 5 µm PP			
Pressure Pump	Vertical multi-stage 304 or 316 grade stainless steel			
Pump Rating (KW)	1.5	2.2	2.2	3.0
Membrane Type	TFC with FRP outer wrap			
Membrane Quantity & Size	1 x 4" x 40"	2 x 4" x 40"	3 x 4" x 40"	4 x 4" x 40"
Membrane Pressure Vessel	FRP (rated 2050kPa)			
Flow Meters	RO permeate and reject streams			
Pressure Gauges	Feed water pressure and RO pressure gauge			
Quality Monitor	Feed water and permeate conductivity monitoring			
Electrical Controls	PLC, with 5" HMI screen			
Power	220 – 240 VAC, 50 Hz single phase or 415 VAC 3 phase (optional)			
Frame	304 grade stainless steel			
Dimensions (mm)				
Length (mm)	600			
Width (mm)	600	600	600	750
Height (mm)	1650			
Weight (kg)	120	130	140	150
Operating Parameters				
Minimum Operating Pressure	200 kPa			
Maximum Operating Pressure	600 kPa			
Maximum Recovery	70%			
Nominal Rejection	98-99%			
Operating Temperature	15 to 25°C*			
Feed Water Requirements				
pH / Chlorine	3.0 to 10.0 / <0.1 ppm			
TDS ppm	<2500 ppm			
Turbidity / SDI	<1.0 NTU / <5.0			
Hardness	<5.0 ppm			

Notes:  
\*A 3% reduction occurs per degree below 25°C

CONTINENTAL WATER SYSTEMS Pty Ltd ABN: 71 050 287 735



1300 166 253

www.continentalwater.com.au e sales@continentalwater.com.au / accounts@continentalwater.com.au

New South Wales

Victoria

Queensland

Western Australia

