

PRO L SERIES

Membrane Desalination Systems



FULLY AUTOMATIC REVERSE OSMOSIS MEMBRANE DESALINATION SYSTEMS FOR LOW TO MEDIUM SALINITY FEED WATER APPLICATIONS.

A product of South Australia, the **ROWATER PRO L** Series of Fully Automatic Membrane Desalination Systems are ideal for Commercial/Industrial/Rural applications where a constant and reliable supply of fresh potable water with a low salt content is required.

Suitable for use on Feed Water of up to 4,000 ppm T.D.S., production rates of standard **ROWATER PRO L** Systems vary from more than 400 Lt/hour **PRO L 10** to 30,000 Lt/day **PRO L 30**. Each system incorporates a two-stage purification process - Mechanical Filtration and Reverse Osmosis to achieve a rejection rate of up to 98 % Total Dissolved Solids.

ROWATER AUSTRALIA's Customised System Design Program allows flexibility in system design according to the nature of the feed water and daily production rates, as well as meeting purity requirements and storage needs. Applications requiring in excess of 30,000Lt./day. Desalination of higher salinity Feed Waters, and/or Production of higher purity Product Water is available, designed on application. Please consult your ROWATER Representative for further details.

ROWATER PRO L Series boast a range of standard features that others offer as options, including full stainless steel frame. A complete list of features is provided over-leaf for your consideration and close comparison is welcomed.

A comprehensive range of Pre-treatment, Post-treatment, Pure Water Storage and Distribution options are also available, as are alternative voltages and optional export packaging/crating.

ROWATER PRO L systems are designed for quick and easy on site installation. Requiring just three inlet/outlet water connections and a single source power connection, installation and commissioning is made simple and straightforward. Correct tagging and identification of Instruments, Valves and Components ensures easy cross-reference with System Installation, Operation & Maintenance Manual.

Fully automatic, with continuous system operation monitored by visual displays and in-built safety controls, each system requires only minimal service and attendance. Complete side and rear access allows for ease of maintenance, when periodic Cartridge and Membrane Cleaning/Replacement is required.

Combining state of the art technology in Water Purification in a rugged, proven design, each system ensures ease of installation, visually monitored and safety controlled operation, minimal attendance and years of trouble-free operation.

All systems come pre-wired, pre-assembled and fully loaded. Factory wet-testing and complete system sanitation occurs prior to shipment. Built with high quality Food Grade approved components. Complete confidence is assured through a Commitment to product quality, backed by a 12-Month Warranty and professional After-purchase Service and Support.

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Special Features

- **Complete Stainless Steel Frame and Control Panel**
- Auto Operation Capability (with High-Low Level Control Option)
- Corrosion Resistant High Pressure Tubing
- High Quality, Food Grade Approved Components
- Side & Rear Access for ease of maintenance
- Feed Water Check Valve
- Product Water Check Valve
- In-let Solenoid Valve
- **Product and Reject Flow Meters**
- Time Delay device for efficient start-up
- High Rejection T.F.C. Membranes
- Isolation Switch
- High Capacity Poly Spun 05 micron Sediment Pre Filter
- **Corrosion Resistant Membrane Pressure Vessels**
- Liquid filled Pre Filter & Post Filter Gauges
- Liquid filled High Pressure Gauge
- Panel mounted Adjustable Pressure Regulator
- Totally Enclosed Fan Cooled Industrial Motor
- **Stainless Steel Multi-Stage High Pressure Pump**
- Low pressure Safety Back-up Switch
- Three Inlet/Outlet Connections for ease of installation
- Single Power Source Connection
- Clearly Identified Instruments, Valves & Components
- Easy to understand Installation/Operation Manual
- Moulded Filter Housing Spanner for quick filter replacement
- One Year Limited Warranty
- **VFD Pump Control – single to 3 phase inverter up to 3kW**



Options

Feed/Delivery Pumps
Alternative Voltages
Auto High-Low Level Tank Controls
Anti-scalant Dosing System
Raw Water & Product Water Storage Tanks

Nominal Capacity

Models:

PRO L	5i	10	15	20	25	30
Lt./min	3.5	7	10	14	17	21
Lt./hour	210	420	625	840	1,040	1,250
Lt./day	5k	10k	15k	20k	25k	30k
Salt Rejection	up to 98%					
Recovery Rate	50% to 75%					

Nominal Capacities listed above are based on Feed Water Temperature @ 25°C and Salinity @ 1500 ppm TDS. Actual output capacities are subject to change according to variations in Feed Water Characteristics.

Dimensions (mm) & Weight (Kg)

PRO L	5i	10	15	20	25	30
Height	1,650	1,650	1,650	1,650	1,650	1,650
Depth	450	450	550	550	680	680
Width	650	650	650	650	650	650
Weight	85	95	105	115	125	135

Electrical

PRO L	5i	10	15	20	25	30
Motor (kW)	1.1	1.5	2.2	2.2	2.2	3.0

Single Phase 240V/50Hz
Three Phase 380-415V

All above models with VFD pump speed control as standard.

Plumbing

Max. Raw Water Flow rate @ 350kPa:

PRO L	5i	10	15	20	25	30
(lt/min)	20	30	40	50	60	70

Max Operating Pressure 1400 kPa

In-let Connection 25mm Male BSP
Out-let Connection 25mm Male BSP
Reject Connection 25mm Male BSP

Specifications subject to change without notice.