

RO Systems Series PRO

Standard Features

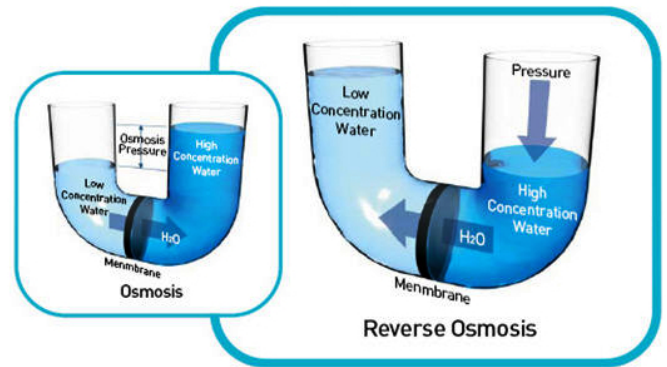
- Capacity 100 - 3,000 Liter/hr
- 2.5" x 40" or 4"x40" RO membranes
- Stainless steel multi-stage pump, vertical type
- 2.5" x 40" or 4"x 40" FRP membrane housings
- 5 micron Microfiltration system
- Control panel
- Programmable time delay and set points
- Pressure switch
- Liquid filled pressure gauges
- TDS meter
- Flow meters
- Stainless steel frame
- Factory tested to insured quality
- 1 Year warranty



AF-PRO44-36Q

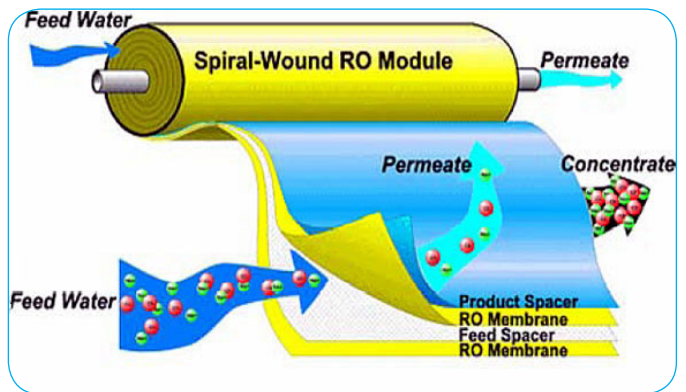
Reverse Osmosis

Reverse Osmosis (RO) is the best technology for drinking water purification or processing water treatment. The raw water with the pressure is filtered by RO membrane. Only water molecules can pass through this membrane while others impurities which particle size is bigger than 0.0001 micron are removed, including ions, heavy metals, salts, dissolved solids, organic compounds, bacteria and viruses.



RO Membrane

RO membrane is made of Thin Film Composite with pore size of 0.0001 micron. To purify water by RO membrane, the natural osmosis effect must be reversed. In order to force the water of the brine stream (high salt concentration) to flow towards the fresh stream (low salt concentration), the water must be pressurized at an operating pressure greater than the osmotic pressure. As a result, the brine side will get more concentrated.



Applications

- Restaurants
- Aquariums
- Manufacturing
- Institutions
- Ice Makers
- Humidification
- Desalination
- Rinse Water
- A wide variety of other applications

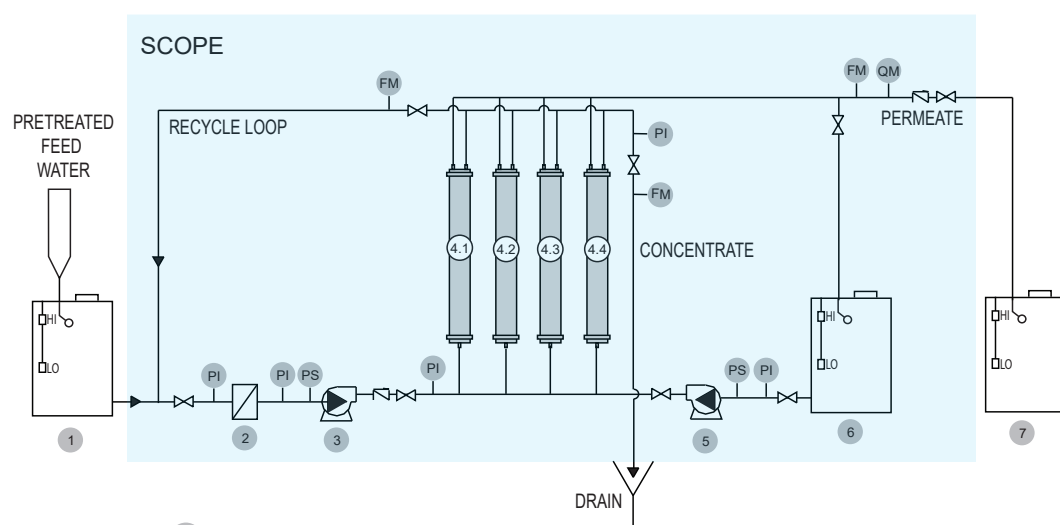
Feed water requirements:

- Max feed water temperature: 45 °C
- Max Turbidity: 300 NTU
- Max TDS: 3,000ppm
- Max Iron content : 0.05 ppm
- Operating pressure: 150 psi
- pH tolerance : 2-11



RO Membrane Specification	RO Membrane size (inch)	
	2.5" x 40	4" x 40"
Membrane material	Polyamide Thin-Film Composite	
Surface area (sq.ft)	28	78
Capacity (Liter/hr)	100	300
Salt rejection (%)	99.5	99.5

Flow Diagram



- 1 Pretreated Feed Water Tank
- 2 5 micron Filters
- 3 High Pressure Pump
- 4 RO Membrane and Housing
- 5 CIP Pump (Optional)
- 6 CIP Tank (Optional)
- 7 Product Water Tank
- ⊗ Solenoid Valve
- ⊏ Check Valve
- PI Pressure Gauge
- PS Pressure Switch
- FM Flow meter
- QM TDS Meter



AF-PRO44-36Q

Ordering information

Part number	Capacity		RO Membrane		Motor Rating (hp)	Dimension L x D x H (cm)	Approx. Weight (kg)
	m ³ /day	Liter/hr	Size (inch)	Numbers			
PRO24-2Q	2	100	2.5 x 40	1	0.5	60 x 60 x 150	45
PRO24-4Q	4	200	2.5 x 40	2	0.5	60 x 60 x 150	50
PRO24-6Q	6	300	2.5 x 40	3	0.75	60 x 60 x 150	60
PRO44-6Q	6	300	4 x 40	1	1	60 x 75 x 150	60
PRO44-12Q	12	600	4 x 40	2	1	60 x 75 x 150	70
PRO44-18Q	18	900	4 x 40	3	1.5	60 x 75 x 150	90
PRO44-24Q	24	1,200	4 x 40	4	1.5	60 x 75 x 150	100
PRO44-30Q	30	1,500	4 x 40	5	2	60 x 75 x 150	115
PRO44-36Q	36	1,800	4 x 40	6	2	60 x 75 x 150	130
PRO44-48Q	48	2,400	4 x 40	8	3	60 x 90 x 150	170
PRO44-60Q	60	3,000	4 x 40	10	3	60 x 90 x 150	200

Design, specification and materials subject to change without notice.

Options



Media Filters and Softeners

Anthracite : for Sediment Removal
Manganese Green Sand : For Stain Removal
Activated Carbon : for Toxic Organics, Chlorine, Tastes and Odors Removal
Resin (Na+) : for Hardness Removal



Chemical Dosing Systems

Chemical dosing systems offer a wide range of capacities to meet various chemical treatment applications including chemical injection.



Membrane Cleaning Systems

Membrane cleaning system is designed for cleaning of various kinds of membrane. For RO system, membrane cleaning system is required for CIP (Clean in Place) operation to clean the RO membrane when the production of system drops by at least 10% or the differential pressure increases by 15%.



Ozone Systems

- Ozone can literally oxidize material in water 3,200 times faster than chlorine
- Ozone is the best choice for bacterial disinfection and inactivation of viruses.
- Ozone can precipitates iron, manganese, sulfides, nitrites and organometallics.
- Ozone can oxidize organics causing color, taste and odor problems, some detergents and pesticides, phenols, VOCs, turbidity control and micro flocculation of soluble organics.



UV Systems

The quality of drinking water can change with time and become contaminated with harmful bacteria. Acropore UV system is a reliable, economical and chemical-free way to safeguard drinking water.

Please request more information

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