

## RO Systems Series PRO

### Standard Features

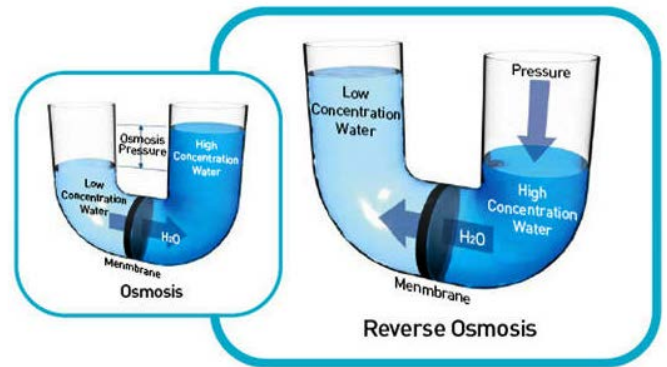
- For Drinking water or production water or DI pretreatment by Reverse Osmosis from tap water, brackish water or seawater
- 4x40" or 8"x40" TFC spiral wound membranes with FRP membrane Housing
- Stainless steel multi-stage pump, vertical type
- Complete with 5 micron prefilter, Control panel, Pressure switches, Pressure gauges, TDS meter, Flow meters and steel frame
- Factory tested to insured quality
- 1 Year warranty



AF-PRO88-196Q

## Reverse Osmosis

Reverse Osmosis (RO) is the best technology for drinking water purification. 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, bacterias and viruses.

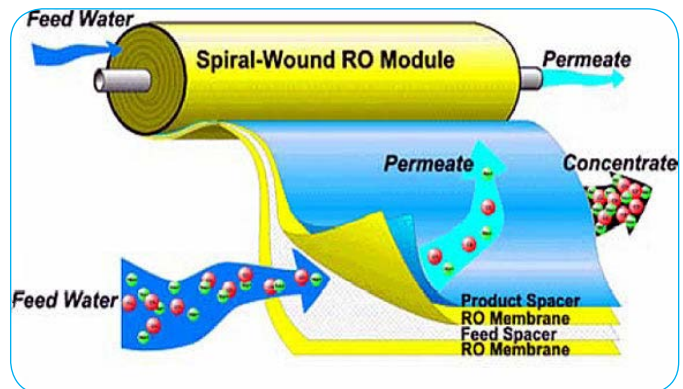


## RO Membrane

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



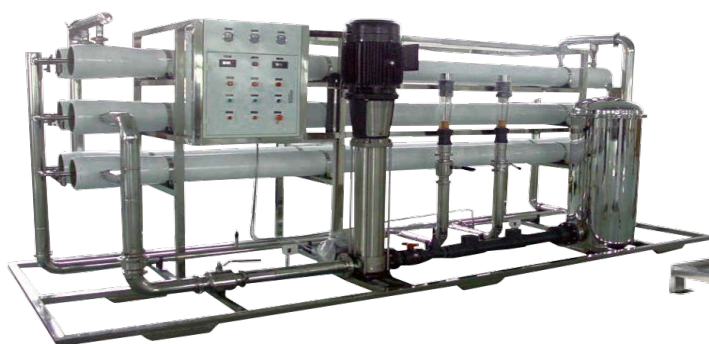
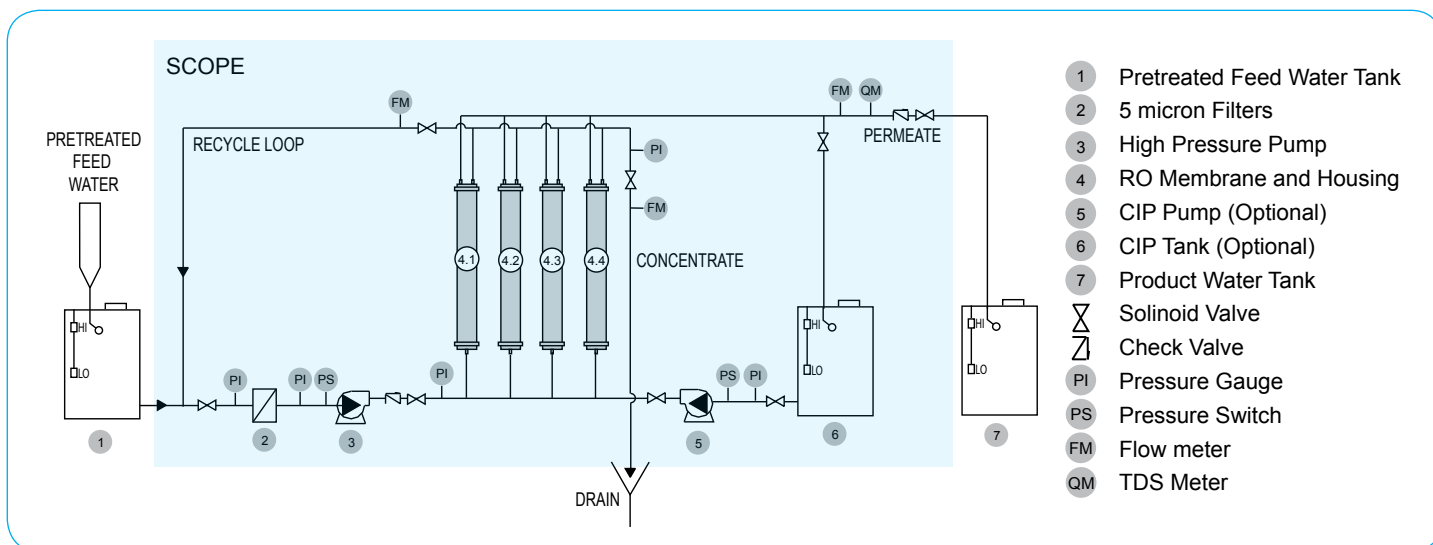
## Feed water requirements:

- Max feed water temperature: 45 °C
- Max Turbidity: 300 NTU
- Max TDS: 3,000ppm
- Max Iron content : 0.05 ppm
- Operating pressure: 150- 250 psi
- pH tolerance : 2-11



RO Membrane Specification	RO Membrane Size (inch)	
	4 x 40	8 x 40
Membrane material	Polyamide Thin-Film Composite	
Surface area (sq.ft)	78	365
Capacity (m <sup>3</sup> /hr)	0.25	1.5
Salt rejection (%)	99.5	99.5

## Flow Diagram



AF-PRO48-72Q



AF-PRO88-196Q

### Ordering information

Model	Capacity m <sup>3</sup> /hr	RO Membrane		Motor Rating (hp)	Dimension L x D x H (cm)	Weight (kg)
		Size (inch)	Numbers			
PRO48-48Q	2	4 x 40	8	4	70 x 250 x 150	360
PRO48-72Q	3	4 x 40	12	4	70 x 250 x 150	420
PRO88-96Q	6	8 x 40	4	4	90 x 320 x 150	450
PRO88-144Q	9	8 x 40	6	5.5	90 x 320 x 150	520
PRO88-196Q	12	8 x 40	8	7.5	90 x 320 x 150	600
PRO88-240Q	15	8 x 40	10	7.5	90 x 320 x 150	720
PRO88-288Q	18	8 x 40	12	7.5	90 x 320 x 150	840

Design, specification and materials subject to change without notice.

# Options



## Media Filter and Softeners

Anthracite : for Sediment Removal

Manganese Green Sand : For Stain Removal

Activated Carbon : for Organics, Chlorine, Taste and Odor Removal

Resin : 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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