

## RA series RO System

### ROTEK RL 800-6000LPH Reverse Osmosis Systems

ROTEK RA series systems are part of a family of reverse osmosis units specifically designed for operation with fresh and brackish feed waters having TDS values below 1,500 ppm. Customers can access these Models with permeate outputs of between 150 and 1,000 liters/hr as shown in the specifications.



## Standard Features

- RO micro-computer controller with permeate TDS readout
- 300PSI stainless steel membrane housing + PE end caps
- NUERT rotary vane pump for 800GPD
- ROTEK LPE multistage pump for 1500-6000GPD
- 5 micron sediment pre-filter x 2 in series
- Rotek rotameters for permeate and a concentrated stream
- Rotek pressure gauges for prefilter feed and RO feed
- Low-pressure switch
- SS316 concentrate needle valve
- Concentrate recycling valve (without flow meter)
- Electro-plated SS304 skid frame

## Available Options

- RO membranes are available with brands of Filmtec, Hydranautics, Vontron, and Toray
- FRP membrane vessel
- Grundfos multistage pump
- CNP multistage pump
- Concentrate recycling flow meter
- Provision for CIP

## Feed Water TDS

Turbidity(SDI)	<5
T.D.S.	<2000ppm
Temperature	5~40°C
FreeChlorine	0ppm
pH	3-11
Iron	<0.01ppm

## Specifications

Models	RA800	RA1500	RA3000	RA4500	RA6000
Feed WaterTDS	<1500ppm	<1500ppm	<1500ppm	<1500ppm	<1500ppm
Recovery Rate*	18-75%	18-75%	34-75%	45-75%	50-75%
Vessel Array	1	1	1:1	1:1:1	1:1:1:1
Vessel Size	2540 x 1	4040 x 1	4040 x 2	4040 x 3	4040 x 4
Permeate Flow Rate (gpm/lpm)**	0.6/2.2	1.0/3.9	2.1/7.9	3.1/1.8	4.2/15.8
Feed Connection	3/8" FNPT	1/2" FNPT	3/4" FNPT	3/4" FNPT	3/4" FNPT
Permeate Connection	3/8"	3/8"	1/2"	1/2"	1/2"
Concentrate Connection	3/8"	3/8"	1/2"	1/2"	1/2"
Flush Connection	3/8"	3/8"	1/2"	1/2"	1/2"
Pump type & Motor HP	Rotary Vane 0.5HP	Rotary Vane 1HP	Multistage 2HP	Multistage 2HP	Multistage 2HP
Gross Dimension (cm)	66X45X130	66X45X130	69X63X147	69X63X147	69X63X147
Gross Weight (kg)	35	45	88	94	100

\* Minimum recovery rate is calculated base on no concentrate recirculation, it is possible to increase the overall recovery rate by increasing the concentrate circulation flow.

\*\* Permeate flow rate can be vary depends on type of membrane, raw water quality and recovery rate.

## Application Diagram

