

ROG-8

REVERSE OSMOSIS SYSTEM



G-Water ROG—8 Series Reverse Osmosis Systems are engineered to produce high purity water in applications requiring quality equipment with a fast delivery and at competitive price. All **G-Water** RO units come factory tested and are pre-assembled in the US to delivered quick field installation and start-up. Our pre-engineered units deliver to our industrial and municipal customers best in class RO technology at a competitive price point. Simple utility connections and preset controls will have the system on-line and in service in no time. **G-Water ROG—8** standard units are available with product water outputs from 25-350 GPM (36,000-500,000 GPD).

G-Water can provide RO options to meet customer specifications or special applications. Options include pre and post RO treatment systems, clean-in-place skids, germicidal control, collection and forwarding tanks, intake and distribution pump stations - all as integrated solutions. Whether standard, local PLC controls or plant level integration to **SCADA** operating platforms, trust in **G-Water** to deliver best in class RO technology at competitive pricing.

The **ROG—8** RO systems come in two configurations, a standard RO unit and Flow Reversal RO unit. The main advantages of the FR RO unit is its ability to reach high recovery rates, up to 96% (water quality dependent), without being exposed to the hazard of mineral scaling and its negative effects. When quantity of permeate or reduction of reject are imperative, the FR RO patented technology is the solution.



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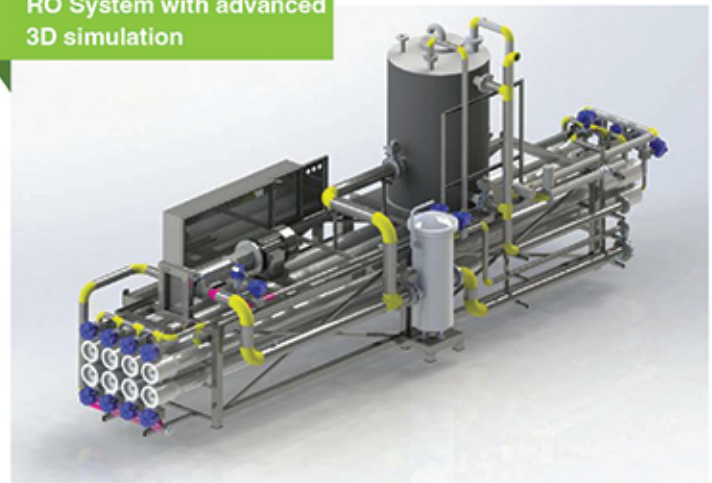
Standard Features

- Choice of brackish water or low pressure TFC membranes (400 ft2) to ensure optimum water quality
- ASME Spec'd FRP, RO pressure vessels
- Vertical multi-stage centrifugal Pump: 304SS, TEFC 460V/60hz/3ph motor.
- PVC SCH80 low pressure feed, product and reject piping, stainless steel 304 SCH10 high pressure piping
- NEMA-4 electrical enclosures, PLC touch screen operated control panel
- 5-micron sediment pre-filter 304SS housing
- Industrial epoxy coated carbon steel frame
- Product water conductivity monitor
- Product and reject flow monitor
- 304SS pressure gauges / Inlet pressure switch

Optional RO Equipment

- Variable Frequency Drives (VFD)
- pH/ORP monitors
- 5-micron sediment pre-filter 316SS housing
- All stainless-steel piping 304/316
- Ethernet/Modbus PLC communications
- FRP or 304 Stainless steel frame
- Vertical multi-stage centrifugal Pump: 316SS, TEFC 460V/60hz/3ph motor.
- Membrane clean-in-place (CIP) system
- Pretreatment chemical injection systems
- Containerized Package System

RO System with advanced 3D simulation



Typical Design Parameters Standard RO Series

- Operating Pressure: 150-250 psig
- Nominal Recovery: 75–80%
- Nominal Salt Rejection: 98–99%
- Operating Temperature: 45–85° F
- Design Temperature: 60° F
- Inlet Water Requirement
 - Chlorine free
 - SDI < 3 / NTU < 1
 - Soft / Pre-conditioned Water
- Projection based on 1500 ppm NaCl

**RO pilot service and support available upon request*

Model No	Flow Rates gpm			Vessel Staging	Element Quantity	Piping Connection in			Pump HP	Shipping Weight LBS
	Feed	Product	Reject			Feed	Product	Reject		
ROG-25-8	33	25	8	1/1	6	1 ½	1 ½	1	10	3100
ROG-35-8	47	35	12	1/1/1	9	2	1 ½	1	10	3400
ROG-50-8	67	50	17	2/1/1	12	2	2	1	20	3850
ROG-65-8	87	65	22	2/1/1	16	2 ½	2	1 ½	20	4050
ROG-80-8	107	80	27	2/1/1	20	2 ½	2 ½	1 ½	25	4550
ROG-100-8	133	100	33	2/1/1	24	2 ½	2 ½	1 ½	25	4700
ROG-125-8	167	125	42	3/2	30	3	3	2	30	5300
ROG-150-8	200	150	50	4/2	36	3	3	2	40	5900
ROG-200-8	267	200	67	5/3	48	4	4	2	50	6650
ROG-250-8	333	250	83	6/4	60	6	6	3	60	7400
ROG-300-8	400	300	100	8/4	72	6	6	3	70	9200