

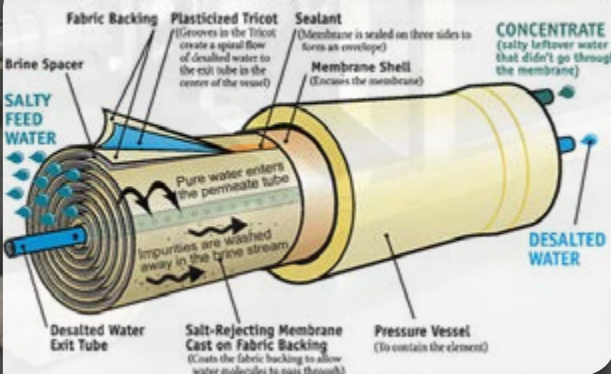
## ROGEN

### RON - COMMERCIAL REVERSE OSMOSIS SYSTEM 7,000~37,000GPD

FG Water Technologies  
Wuxi Fenigal Science & Technology Co., Ltd.

Reverse Osmosis is a technology that is used to remove a large majority of contaminants from water by pushing the water under pressure through a semi-permeable membrane.

Reverse Osmosis Membrane Element inside a Pressure Vessel



## RON Series Commercial Reverse Osmosis System

Capacity: 7,000~37,000GPD / 27~141m<sup>3</sup>/day

Designed to produce low dissolved solids water from tap or well water, these RO systems use high efficiency reverse osmosis membranes. These RO systems are designed to work at pressures of 150-250 psi for higher TDS water and use TW reverse osmosis membranes. The TW RO membranes offer higher salt removal and the higher operating pressure overcomes the loss of membrane flow due to higher TDS level.



*\*\* Product pictures are only for reference. Final products may vary based on actual design requirement.*

### Standard Features

- 4" TFC spiral wound membranes
- Stainless steel multi-stage pump with TEFC motor
- FRP membrane housings
- 5 micron cartridge prefilter
- Microprocessor based control panel
- Programmable time delay and set points
- LCD screen
- Motor starter
- Low pressure switch
- High pressure switch
- Liquid filled pressure gauges
- Permeate conductivity monitor
- Permeate & concentrate flow meters

### Available Options

- SS pressure vessels
- High pressure switch
- pH or ORP meter
- Recycle flow meter
- Product tank float switch
- Automatic flush
- Export wood crating
- Media filters
- Ozonation system/UV sterilizers
- Water softeners
- Skid mounted with pre and post treatment
- Solar powered systems

### The ideal applications for brackish reverse osmosis systems include:

Metal Finishing  
Beverage Production and Bottled Water  
Electronics  
Pharmaceutical  
Mining Industry  
Chemical Blending

Safe Drinking Water  
Rinse Water  
Power Plants  
Plating Operations  
EDI Pre-treatment  
Food and Beverage

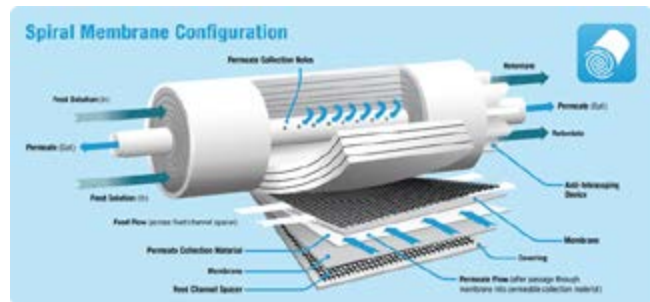
Spot Free Product Rinse  
Cooling Towers  
Laboratory  
Boiler Feed Water  
Ice Manufacturing  
Ion Exchange Pre-treatment



# RON Series Commercial Reverse Osmosis System

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The spiral membrane is constructed from one or more membrane envelopes wound around a perforated central tube. The permeate passes through the membrane into the envelope and spirals inward to the central tube for collection. The layers of the membrane envelope are detailed in the diagram to the right.



## Operation Specifications

- Max. feed water temperature: 42°C
- Equipment upgrade for TDS up to 5,000 ppm
- Hydrogen Sulfide must be removed
- Max. Silica tolerance: 25 ppm @ 60% recovery
- Feed water TDS: 0-2,000 ppm
- Operating pressure: 150 to 250 psi
- pH tolerance range: 3-11
- Max. Iron content: 0.05 ppm
- Feed water pressure: 20 to 80 psi
- Hardness over 1 GPG requires water softener
- Turbidity should be removed
- Operate at higher TDS by lowering recovery

Model No.	System Capacity			Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	GPM	m3/day	Qty	Dia.xL	Inlet	Perm.	Conc.	Length	Depth	Height	
RON-7k-444	7,000	4.9	27	4	4" x 80"	1	3/4	3/4	96/245	36/90	63/160	436/198
RON-8.5k-544	8,500	5.9	32	5	4" x 80"	1	3/4	3/4	96/245	36/90	63/160	484/220
RON-10k-644	10,000	6.9	38	6	4" x 80"	1	3/4	3/4	96/245	36/90	63/160	532/242
RON-11.5k-744	11,500	8.0	44	7	4" x 80"	1	3/4	3/4	96/245	36/90	63/160	572/260
RON-13k-844	13,000	9.0	49	8	4" x 80"	1 1/2	1	3/4	96/245	36/90	63/160	620/282
RON-15k-1044	15,000	10.4	57	10	4" x 80"	1 1/2	1	3/4	96/245	36/90	63/160	678/308
RON-18k-1244	18,000	12.5	68	12	4" x 80"	1 1/2	1	3/4	96/245	36/90	63/160	722/328
RON-22k-1544	22,000	15.3	84	15	4" x 120"	1 1/2	1	3/4	136/345	36/90	71/180	845/384
RON-27k-1844	27,000	18.8	103	18	4" x 120"	1 1/2	1	3/4	136/345	36/90	71/180	889/404
RON-32k-2144	32,000	22.2	122	21	4" x 120"	1 1/2	1	3/4	136/345	36/90	71/180	928/422
RON-37k-2444	37,000	25.7	141	24	4" x 120"	1 1/2	1	3/4	136/345	36/90	71/180	964/438

### Voltage Codes:

235 = 230v, 3ph, 50hz  
236 = 240v, 3ph, 60hz  
335 = 380v, 3ph, 50hz

435 = 400/415v, 3ph, 50hz  
436 = 460v, 3ph, 60hz

# RON-SERIES REVERSE OSMOSIS WATER PURIFICATION SYSTEM



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