

# COMMERCIAL RO SYSTEMS

## TDS Reduction



### STANDARD FEATURES

- Powder-coated steel frame
- Stainless steel multi-stage pump
- Low energy Thin film composite membranes
- Stainless steel membrane vessel
- High-pressure nylon tubing
- Liquid-filled high pressure gauge
- Feed water inlet solenoid valve
- Adjustable waste valve
- 5 micron high flow sediment pre-filter
- High-pressure brass comp. fittings
- Feed water inlet solenoid valve
- High-press. brass comp. fittings
- Recycle flow meter
- Automatic flush
- TDS digital monitor, panel mounted
- Product and waste flow meters
- Pre-filter IN & OUT gauges, liquid-filled



### STANDARD ELECTRICAL CONTROLS

- Fused Off/On safety switch
- Flow switch to protect from low/no feed water pressure
- Float switch
- 30 amp motor contactor
- 110V-60Hz or 220V

### OPTIONS:

- Recycle valve (requires waste flow meter)
- Tank pressure switch
- Shipping crate
- 50 Hz electrical

### FEED WATER PARAMETERS:

- Temperature 4°C to 30°C
- Pressure 40 - 80 psi maximum
- TDS < 2000 PPM
- Iron < 0.3 PPM
- Manganese < 0.05 PPM
- Free chlorine & Chloramines < 0.1 PPM
- Hydrogen sulfide - None
- Silica tolerance < 75 PPM
- Turbidity < 0.5 NTU
- Hardness < 2 GPG
- pH Range – 3-11

### OPERATING PARAMETERS:

- Operating pressure 200 psi maximum
- Water recovery up to 70% and is field adjustable by operator but it is recommended that the recovery be set for 50% for best results

## MODELS

MODEL	PERMEATE GPD*		Membrane Size	Membr Qty	Piping			Dimensions	Weight (Lbs)
	At 50% Recovery	At 70% Recovery			Inlet	Waste	Permeate		
ERO400 <sup>†</sup>	400	550	4" x 21"	1	¾"	½"	½"	24" x 30" x 53"H	99
ERO1100	1100	1540	4" x 40"	1	¾"	½"	½"	24" x 30" x 53"H	140
ERO2200	2200	3000	4" x 40"	2	¾"	½"	½"	30" x 30" x 53"H	166
ERO3300	3300	4620	4" x 40"	3	¾"	½"	½"	30" x 30" x 53"H	194
ERO4400	4400	6160	4" x 40"	4	¾"	½"	½"	30" x 30" x 56"H	236
ERO5500	5500	7700	4" x 40"	5	¾"	½"	½"	30" x 30" x 56"H	267
ERO6600	6600	9240	4" x 40"	6	¾"	½"	½"	30" x 30" x 56"H	293

<sup>†</sup> ERO400 model designed with ¾ HP motor brass rotary vane pump

\* Permeate volume depends on several factors such as water temperature, feed water TDS etc. Actual permeate volume in use may vary depending upon conditions. It is advisable to over-size than undersize the system.

Permeate is calculated based on a 24 hour production capacity and is to be used as a reference only. For system sizing, it is recommended that a system be selected based on meeting permeate volume requirements in 8 – 12 hours

All models feature energy saving (low energy membrane).

*For custom specifications & options and pre-treatment choices, please call Rainfresh*

1 year limited warranty

