



ES Series

High Quality, Low Cost

The GRO/ES Series systems are light duty reverse osmosis systems designed to provide high-quality water for residential and commercial applications at a low cost. The base models are fully functional RO systems and an optional package is available to satisfy most monitoring and control requirements.

The GRO/ES systems are ideal for water supplies with low fouling potential.

BENEFITS

- Simplicity
- Dependable Operation
- High Quality Components
- Low Cost
- Full Production at Low Temperatures
- Backed by Over Two Decades of RO Design Experience

TYPICAL APPLICATIONS

- Florist
- Car Wash
- Laboratory
- Metal Finishing
- Parts Rinsing
- Chemical Blending
- Home RO
- Restaurants and Bars
- Nurseries/Greenhouses
Small Bottled Water Plants
- And many other applications requiring dependable, high purity water purification

SIZE RANGE

- 150 to 9600 GPD



GRO Series

STANDARD FEATURES

- Thin Film Composite Membranes
- Corrosion Resistant Frame
- Rotary Vane or Multi-stage Stainless Steel Centrifugal Pumps Depending on Model
- Heavy Duty, Fiberglass RO Pressure Vessels (on models with 4" vessels)
- Polyethylene or Polypropylene Tubing and Fittings on Product Plumbing
- 5 Micron Sediment Pre-filter
- ON-OFF Switch
- Manual Feed Water Shut-off Valve
- Heavy Duty Concentrate Control Valve
- RO Pump Pressure Gauge
- Product Water Check Valve
- Recirculation Loop for Increased Recovery
- Factory Performance Tested
- Automatic Feed Water Shut-off Valve
- Pre-filter Pressure Gauges
- Feed Water Low Pressure Protection
- Pre-filter and Product Water Sample Ports
- Product and Reject Flowmeters (available on ES1600-9600 only)
- Pretreatment Lockout (available on ES1600-9600 only)
- Reject Recirculation
- Auto Restart (standard on ES1600-9600 only)
- Digital TDS Monitor (standard on ES1600-9600 only)

SPECIFICATIONS

Model	GRO-150	GRO-250	GRO-500	GRO-700	ES-1600	ES-3200	ES-4800	ES-6400	ES-8000	ES-9600
Output gpd/mday	150/.6	250/.94	500/1.9	700/2.7	1,600/6.1	3,200/12.1	4,800/18.2	6,400/24.2	8,000/30.3	9,600/36.4
Product Flow (gpm)	0.10	0.17	0.35	0.49	1.11	2.22	3.33	4.44	5.55	6.66
Reject Flow (gpm)	0.23	0.31	0.52	0.52	1.10	2.20	2.20	2.70	3.00	4.40
Recovery Rate	30%	35%	40%	48%	50%	50%	60%	62%	65%	60%
Membrane Quantity	1	1	2	3	1	2	3	4	5	6
Membrane Size	2.5"x14"	2.5"x21"	2.5"x21"	2.5"x21"	4"x40"	4"x40"	4"x40"	4"x40"	4"x40"	4"x40"
Pump HP	1/3	1/3	1/3	1/3	3/4	3/4	3/4	3/4	1.5	1.5
Inlet Connection	3/8"	3/8"	3/8"	3/8"	3/4"	3/4"	3/4"	3/4"	1"	1"
Product Connection	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Reject Connection	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Weight (Lbs/Kilo)	40/18	50/23	58/26	66/30	180/82	200/91	220/100	240/109	260/118	280/127
Size (L" x W" x H")	20x30x20	20x30x20	20x30x20	20x30x21	44x44x68	44x44x68	44x44x68	44x44x68	44x44x68	44x44x68
Packaging	Carton	Carton	Carton	Carton	Pallet	Pallet	Pallet	Pallet	Pallet	Pallet

* Output is based on 60Hz power, 70°F Temperature, up to 1,000 mg/l TDS, 8.0 pH