STANDARD RO SYSTEM

800GPD / 1500GPD/ 3000GPD

Standard Features

- Carbon steel powder coated frame: midnight black/pure white or Stainless Steel frame
- 10" 5um pre-filter for 800gpd;20" 5um pre-filter for 1500/3000gpd
- Seamless SS or FRP RO housing
- Permeate/concentrate flow meter
- Liquid filled pressure gauge x3
- Feed/ pump/ concentrate pressure gauges
- Membrane flush on/off switch
- Rotary vane pump for 800gpd; SS multistage pump for 1500/3000gpd
- High-pressure material tubing
- Low inlet pressure protection design
- Automatic feed water solenoid valve
- Automatic flushing solenoid valve
- Adjustable flow regulation valve
- Permeate Cond./ Resis./ TDS monitor
- Automatic inlet shutoff valve
- Recirculation system to increase the recovery rate and waste less water
- Chemical feed open for flexibility
- Custom design is available;
 please contact us for more info

Feed Water

- Feed Water Source: Standard RO pretreatment
- Min. raw water pressure: 40psi (2.8kg/cm²)
- Min. feed water flow:
 - 800gpd: 4gpm (0.85 m³/h)
 - 1500gpd: 7gpm (1.50 m³/h)
 - 3000gpd: 8gpm (1.70 m³/h)
- Water temperature: 15 38°C (60 100°F)
- pH: 4 9
- Hardness: < 17 ppm (CaCO3)
- Turbidity: < 1 NTU</p>
- Silt Density Index: SDI < 5
- Total Dissolved Solids: TDS <1000 ppm</p>
- Fe³⁺: < 0.1 ppm

Cl: must be removed

Mn: < 0.05 ppm

H2S: < 0.05 ppm

Silica: < 100 ppm (concentrate flow)

Organic: < 1 ppm





Physical Spec

| Model | ORO-800 | ORO-1500 | ORO-3000 |
|-----------------------|------------------|------------------|------------------|
| Permeate | 800 Gallons | 1500 Gallons | 3000 Gallons |
| (per day) | (3 m³) | (5.7 m³) | (11.35 m³) |
| RO housing | 1 | 1 | 2 |
| Operating Pressure | 150psi or 200psi | 150psi or 200psi | 150psi or 200psi |
| Piping (inlet) | 3/4" | 3/4" | 3/4" |
| Recovery (%) | 15 - 20 | 15 - 20 | 30 - 40 |
| Power | 110 or 220v, | 110 or 220v, | 110 or 220v, |
| (Voltage / Frequency) | 50 or 60hz | 50 or 60hz | 50 or 60hz |
| Output | 1.5 kw | 1.5 kw | 1.5 or 2.2 kw |
| | (2.0 hp) | (2.0 hp) | (2.0 or 3.0 hp) |
| System Dimension | 45 x 45 x 120 / | 55 x 55 x 142 / | 55 x 55 x 142 / |
| L x W x H (cm/inch) | 18" x 18" x 47" | 22" x 22" x 56" | 22" x 22" x 56" |
| Package Dimension | 58 x 58 x 138 / | 69 x 69 x 158 / | 69 x 69 x 158 / |
| L x W x H (cm/inch) | 23" x 23" x 54" | 27" x 27" x 62" | 27" x 27" x 62" |
| Shipping Weight | 75 kg | 130 kg | 150 kg |
| | (165 lbs) | (290 lbs) | (330 lbs) |

- * RO membrane not included; membranes can be added upon request
- * ORO-800 system comes with 4"x21" membranes
- * Recirculation system is available in both ORO-1500 and 3000 series to increase the recovery rate

^{*} It is not recommended to set the recovery rate higher than the listed recovery. Flow rates are determined by the original membrane manufacturer's testing condition of NaCl solution, 25 °C / 77 °F temperature, 225psi for standard brackish water RO,150psi for low pressure RO, 100 - 110psi for ultra-low pressure RO at 10-15% recovery. Rejection rate of the membrane is under normal test condition defined by membrane manufacturer, and the actual flow rates performance vary based on the inlet water condition (pretreatment design), including the temperature, the pressure, and the model of the membrane. A report of feed water analysis is suggested to determine if the inlet water meets the criteria of our RO system.

STANDARD RO SYSTEM

6000PD / 9000GPD/ 13000GPD

Standard Features

- Powder-coated carbon steel frame
- Midnight black or pure white
- 10" 5um pre-filter for 6000gpd;20" 5um pre-filter for 9000/13000gpd
- Seamless stainless steel RO housing
- Permeate/concentrate flow meter
- Liquid filled pressure gauge x3
- Feed/ pump/ concentrate pressure gauges
- Membrane flush on/off switch
- 304SS multi-stage booster pump
- High-pressure material tubing
- Low inlet pressure protection design
- Automatic feed water solenoid valve
- Automatic flushing solenoid valve
- Adjustable flow regulation valve
- Permeate Cond./ Resis./ TDS monitor
- Automatic inlet shutoff valve
- Up to 60% recovery rate
- Chemical feed open for flexibility
- Custom design is available; please contact us for more info

Feed Water

- Feed Water Source: Standard RO pretreatment
- Min. raw water pressure: 40psi (2.8kg/cm²)
- Min. feed water flow:
 - 6000gpd: 8gpm (1.80 m³/h)
 - 9000gpd: 11gpm (2.50 m³/h)
 - 13000gpd: 15gpm (3.40 m³/h)
- Water temperature: 15 38°C (60 100°F)
- pH: 4 9
- Hardness: < 17 ppm (CaCO3)
- Turbidity: < 1 NTU</p>
- Silt Density Index: SDI < 5</p>
- Total Dissolved Solids: TDS <1000 ppm
- Fe³+: < 0.1 ppm

CI: must be removed

Mn: < 0.05 ppm

H2S: < 0.05 ppm

Silica: < 100 ppm (concentrate flow)

Organic: < 1 ppm

Physical Spec

| Model | ORO-6000 | ORO-9000 | ORO-13000 |
|-----------------------|-------------------|-------------------|-------------------|
| Permeate | 6000 Gallons | 9000 Gallons | 13000 Gallons |
| (per day) | (22.71 m³) | (34.07 m³) | (49.21 m³) |
| RO housing | 4 | 6 | 8 |
| Operating Pressure | 150psi or 200psi | 150psi or 200psi | 150psi or 200psi |
| Piping (inlet) | 1" | 1" | 1" |
| Recovery (%) | 50 - 60 | 50 - 60 | 50 - 60 |
| Power | 220, 440, or 480v | 220, 440, or 480v | 220, 440, or 480v |
| (Voltage / Frequency) | 50 or 60hz | 50 or 60hz | 50 or 60hz |
| Output | 1.5 or 2.2 kw | 2.2 or 3.0 kw | 2.2 or 3.0 kw |
| | (2.0 or 3.0 hp) | (3.0 or 4.0 hp) | (3.0 or 4.0 hp) |
| System Dimension | 150 x 70 x 115 / | 150 x 96 x 115 / | 150 x 96 x 125 / |
| (L x W x H) | 59" x 28" x 45" | 59" x 39" x 45" | 45" x 39" x 45" |
| Package Dimension | 164 x 86 x 138 / | 164 x 106 x 138 / | 164 x 106 x 140 / |
| L x W x H (cm/inch) | 65" x 34" x 54" | 64" x 42" x 54" | 65" x 42" x 55" |
| Shipping Weight | 260 kg | 330 kg | 370 kg |
| | (570 lbs) | (730 lbs) | (820 lbs) |

* RO membrane not included; membranes can be added upon request
* ORO-6000 is available in vertical/ horizonal layout; ORO-9000/13000 are only available in horizontal mode



^{*} It is not recommended to set the recovery rate higher than the listed recovery. Flow rates are determined by the original membrane manufacturer's testing condition of NaCl solution, 25 °C / 77 °F temperature, 225psi for standard brackish water RO,150psi for low pressure RO, 100 - 110psi for ultra-low pressure RO at 10-15% recovery. Rejection rate of the membrane is under normal test condition defined by membrane manufacturer, and the actual flow rates performance vary based on the inlet water condition (pretreatment design), including the temperature, the pressure, and the model of the membrane. A report of feed water analysis is suggested to determine if the inlet water meets the criteria of our RO system.