

# Section Eight Reverse Osmosis Equipment

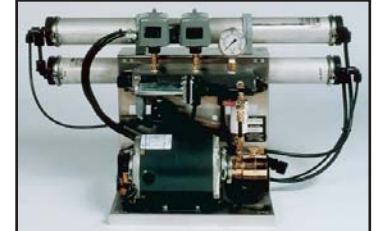


## Applications

- \* Research
- \* Aquaculture
- \* Aquarium

## Function

- \* Remove TDS (Total Dissolved Solids)



HP Series High-Pressure R/O

## R/O Water Purification Equipment

Maintaining optimum water quality parameters begins with the source water. Reverse Osmosis (R/O) is a separation process utilizing membrane technology capable of reducing the TDS (Total Dissolved Solids) that includes mineral salts, metals and most inorganic chemicals in the water. Unlike conventional filters that trap and store impurities, the self-cleaning design of the R/O membrane allows it to perform at optimum efficiency for years at a time.

### HP Series Commercial High-Pressure R/O

#### Advantages:

- Designed for Long Life
- Small Footprint
- Extremely Durable
- Maximum Pure Water Output through High Pressure Operation
- Typical Rejection Rate of 96%
- Easy to install and Service

- Note:** Water Hardness
- 15 grains (use HP 125/300/600)
  - 10 grains (use HP 900)
  - 1 grain (use HP 1200)

#### Specifications Chart

Model No.	Nominal Output	Recovery	Electrical HP	Motor HP	Dimensions W x L x H
HP125	125 GPD	25 - 30%	110VAC, 60Hz, 6.2 Amp	1/3	14" x 12" x 17"
HP300	300 GPD	25 - 30%	110VAC, 60Hz, 6.2 Amp	1/3	29" x 12" x 17"
HP600	600 GPD	25 - 30%	110VAC, 60Hz, 6.2 Amp	1/3	29" x 12" x 21"
HP900	900 GPD	33%	110VAC, 60Hz, 6.2 Amp	1/2	29" x 12" x 23"
HP1200	1200 GPD	40%	110VAC, 60Hz, 6.2 Amp	1/2	29" x 12" x 23"

### AmRO Series Commercial High-Pressure R/O

#### Advantages:

- Self-Running, comes with Rejection monitor
- Electronic Controller/Auto Fast Flush
- Maximum Pure Water Output through High Pressure Operation
- Typical Rejection Rate of 96%
- Easy to install and Service

#### Feed Water Chemistry

- Hardness: <17 mg/50% recovery
- Free Chlorine: <0.1 mg/l
- Hydrogen Sulfide: none allowable
- Total Dissolved Solids: up to 3000 mg/l
- pH: 4-11
- Turbidity: SDI < 5
- Organics: <mg/l
- Temperature: 40-80 degrees F
- Iron (Fe): 0.1 mg/l
- Manganese: up to 0.05 mg/l



AmRO Series  
High-Pressure R/O

#### Specifications Chart

Model No.	Nominal Output	Recovery	Electrical HP	Motor HP	Dimensions W x L x H
AmRO 2000	2000 GPD	50%	200VAC, 60Hz, 6.2 Amp	1/2	17" x 18" x 54"
AmRO 4000	4000 GPD	50%	200VAC, 60Hz, 6.2 Amp	1/2	17" x 18" x 54"

#### Pre-Treatment

- 50-535 10" Single Pre-filter. Description: one 10" housing with 5 micron pre-filter, bracket, installation kit (use with HP-150)
- 50-536 10" Triple Pre-filter. Description: three 10" housings with 5 micron pre-filter, two activated carbon filters, bracket, installation kit (use with HP 300 – HP 1200)
- NFS100 Iron Removal Softener. Description: 1.0 Cu. Ft. Media Capacity, 8 GPM, 1" Pipe size, 17" x 51", Time Clock Control
- NFS100M Iron Removal Softener. Description: 1.0 Cu. Ft. Media Capacity, 8 GPM, 1" Pipe size, 19" x 51", Meter Controlled

**Note:** The presence of flocculants, alum, polyelectrolytes (cationic polymers) or other additives can cause fouling. If these elements are present, special chemical pre-treatment may be required.

**Note:** Use carbon block pre-filtration for chlorinated applications.