

'MRO-4-LP' Low Pressure Reverse Osmosis Systems



Overview

Marlo's MRO-4-LP low pressure commercial grade reverse osmosis units combine high quality components with an energy-saving design for a reliable and economical supply of high purity water. The following are just a few of the applications that benefit from the use of RO water.

- Boiler feed
- Spot-free rinse
- Icemaking
- Greenhouses
- Research and medical labs
- Process make-up water
- Humidification
- Ion exchange pre-treatment

Operating Parameters

- Operating Pressure: 125-150 psig
- Nominal Recovery: 65-75%
- Nominal Salt Rejection: 95-99%
- Operating Temperature: 35-85° F
- Design Temperature: 77° F
- Minimum Inlet Pressure: 30 psig
- Inlet Water Quality: Chlorine-Free/Softened
- Electrical Requirements: 220 VAC, 1-phase, 60 Hz.

Materials of Construction

- Frame: Painted carbon steel
- Membrane Elements: Thin-film Composite (TFC)
- Membrane Housings: FRP
- Piping: Sch 80 PVC
- Tubing: Polyethylene

Pump and Motor

- Pump: 304SS Multi-Stage Centrifugal
- Motor: ODP, 220 VAC, 1-phase, 60 Hz.

Standard Features

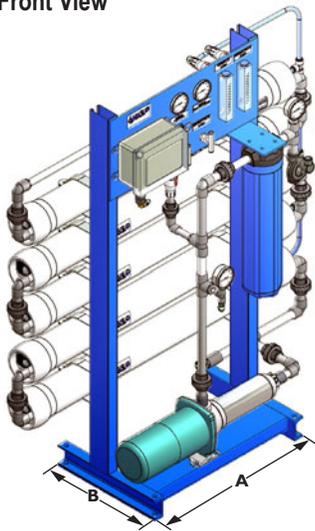
- 5-micron sediment pre-filter housing
- Automatic inlet shut-off valve
- Solid-state digital controller
- Product water conductivity monitor
- Operating pressure gauges
- Product and concentrate flow meters
- Concentrate and recycle flow control valves
- Low inlet pressure switch with shutdown alarm

Optional Equipment Available

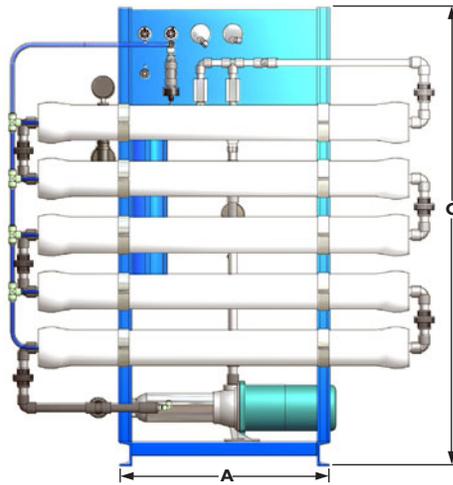
- Pressurized storage vessels
- Atmospheric storage tanks with level control and repressurization pump
- Water softeners and carbon filter pretreatment
- Skid mounted packages with pre/post treatment equipment

SPECIFICATIONS MRO-3600-4-LP THROUGH MRO-9000-4-LP SERIES

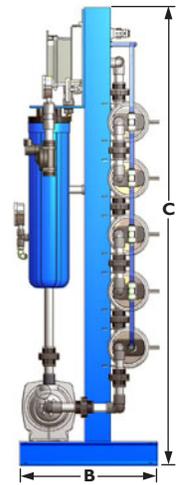
Front View



Rear View



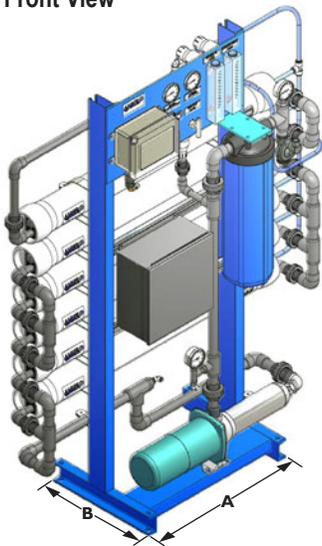
Side View



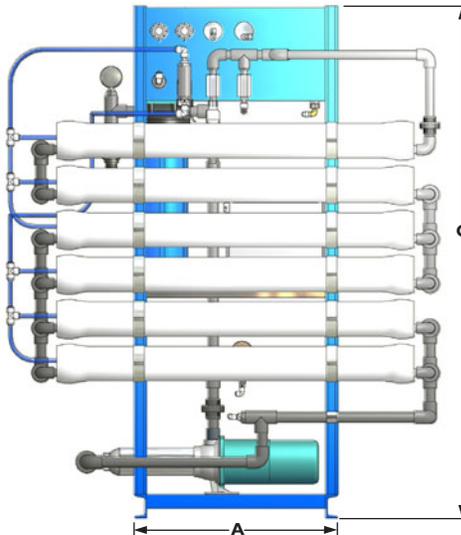
| Model No. | Design (gpm) | Capacity (gpd) | Element Quantity | RO Feed (gpm) | RO Reject (gpm) | System Piping Connections | | | Nominal Operating Pressure | Pump Hp | Approx. Ship Wt. | Approx. Operating Wt. | Dimensions | | |
|---------------|--------------|----------------|------------------|---------------|-----------------|---------------------------|-----------|-----------|----------------------------|---------|------------------|-----------------------|------------|---------|----------|
| | | | | | | Inlet Feed | Product | Reject | | | | | Length A | Width B | Height C |
| MRO-3600-4-LP | 2.5 | 3,600 | 2 | 3.3-3.8 | 0.8-1.3 | 3/8" FNPT | 1/2" Tube | 1/2" Tube | 125 psi | 1 | 375 lb. | 425 lb. | 56" | 17" | 57" |
| MRO-5400-4-LP | 3.8 | 5,400 | 3 | 5.0-5.8 | 1.2-2.0 | 3/8" FNPT | 1/2" Tube | 1/2" Tube | 125 psi | 1 | 425 lb. | 475 lb. | 56" | 17" | 57" |
| MRO-7200-4-LP | 5.0 | 7,200 | 4 | 6.7-7.7 | 1.7-2.7 | 3/8" FNPT | 1/2" Tube | 1/2" Tube | 125 psi | 1 | 475 lb. | 525 lb. | 56" | 17" | 57" |
| MRO-9000-4-LP | 6.3 | 9,000 | 5 | 8.4-9.7 | 2.1-3.4 | 3/8" FNPT | 1/2" Tube | 1/2" Tube | 125 psi | 1 | 525 lb. | 575 lb. | 56" | 17" | 57" |

SPECIFICATIONS MRO-10800-4-LP THROUGH MRO-16200-4-LP SERIES

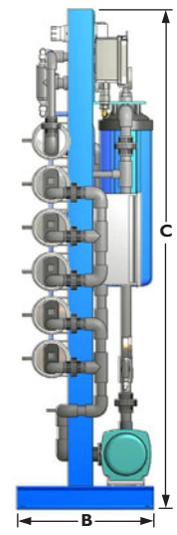
Front View



Rear View



Side View



| Model No. | Design (gpm) | Capacity (gpd) | Element Quantity | RO Feed (gpm) | RO Reject (gpm) | System Piping Connections | | | Nominal Operating Pressure | Pump Hp | Approx. Ship Wt. | Approx. Operating Wt. | Dimensions | | |
|----------------|--------------|----------------|------------------|---------------|-----------------|---------------------------|---------|---------|----------------------------|---------|------------------|-----------------------|------------|---------|----------|
| | | | | | | Inlet Feed | Product | Reject | | | | | Length A | Width B | Height C |
| MRO-10800-4-LP | 7.5 | 10,800 | 6 | 10-11.5 | 2.5-4 | 1" FNPT | 1" FNPT | 1" FNPT | 125 psi | 1.5 | 575 lb. | 650 lb. | 56" | 18" | 66" |
| MRO-12600-4-LP | 8.8 | 12,600 | 7 | 11.7-13.5 | 2.9-4.7 | 1" FNPT | 1" FNPT | 1" FNPT | 125 psi | 1.5 | 625 lb. | 700 lb. | 56" | 18" | 66" |
| MRO-14400-4-LP | 10.0 | 14,400 | 8 | 13.3-15.4 | 3.3-5.4 | 1" FNPT | 1" FNPT | 1" FNPT | 125 psi | 1.5 | 675 lb. | 750 lb. | 56" | 18" | 66" |
| MRO-16200-4-LP | 11.3 | 16,200 | 9 | 15-17.4 | 3.7-6.1 | 1" FNPT | 1" FNPT | 1" FNPT | 125 psi | 1.5 | 725 lb. | 800 lb. | 56" | 18" | 66" |