

## ‘MRO-2.5’ Light Commercial Reverse Osmosis Systems



### Overview

Marlo's MRO-2.5 light 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

- 500 to 2500 GPD Output Capacity
- Operating Pressure: 125-150 psig
- Maximum Recovery: 50%
- Nominal Salt Rejection: 97-99%
- Operating Temperature: 40-85° F (Design: 77° F)
- Minimum Inlet Pressure: 30 psig
- Electrical Requirement: 120 VAC, 1-phase, 60 Hz.
- Inlet Water Quality: Chlorine-Free/Softened  
2,000 ppm TDS Max

### Materials of Construction

- Powder-coated steel frame
- Membrane Elements:  
Low Energy, Thin-film Composite (TFC)
- Membrane Housings: FRP
- Piping: Sch 80 PVC
- Tubing: Polyethylene

### Pump and Motor

- Pump: Rotary Vane, Stainless Steel Construction
- Motor: ODP, 120 VAC, 1-phase, 60 Hz.

### Standard Features

- 5-micron sediment pre-filter housing
- Activated carbon block pre-filter housing
- Automatic inlet shut-off valve
- Remote machine on/off capability
- Product water conductivity monitor
- Operating pressure gauges
- Reject and recycle flow control valves
- Permeate, reject, and recycle flow meters
- Low inlet pressure switch
- High outlet pressure switch

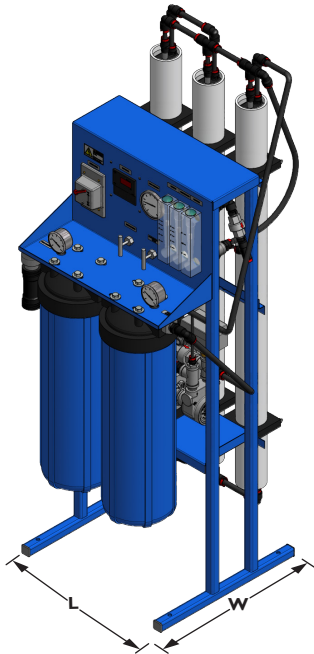
### Optional Equipment Available

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

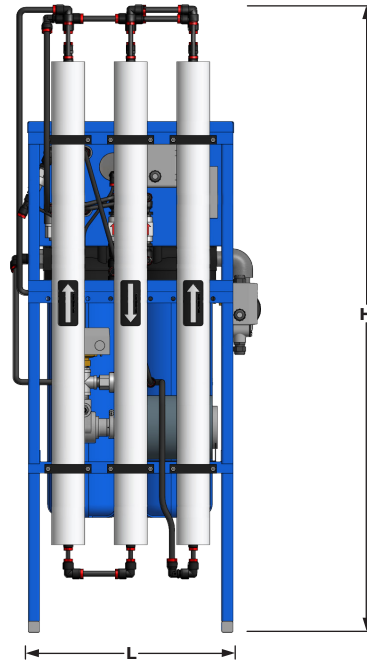
## SPECIFICATIONS

MODEL NUMBER	RATE	CAPACITY	ELEMENT QUANTITY & SIZE (INCHES)	RO FEED	RO REJECT	SYSTEM PIPING CONNECTIONS (INCHES)			PUMP HP	APPROX. SHIP WT. (LBS.)	OVERALL DIMENSIONS (LxWxH) (INCHES)
	GPM	GPD		GPM	GPM	INLET FEED	PERMEATE	RO REJECT			
MRO-500	0.35	500	2	0.7	0.35	1" NPT	3/8" Tube	3/8" Tube	1/3	65	22x22x56
			2.5x21								
MRO-1000	0.7	1,000	3	1.4	0.7	1" NPT	3/8" Tube	3/8" Tube	1/2	70	22x22x56
			2.5x21								
MRO-1500	1.04	1,500	2	2.08	1.04	1" NPT	3/8" Tube	3/8" Tube	3/4	105	22x22x56
			2.5x40								
MRO-2500	1.75	2,500	3	3.5	1.75	1" NPT	3/8" Tube	3/8" Tube	3/4	115	22x22x56
			2.5x40								

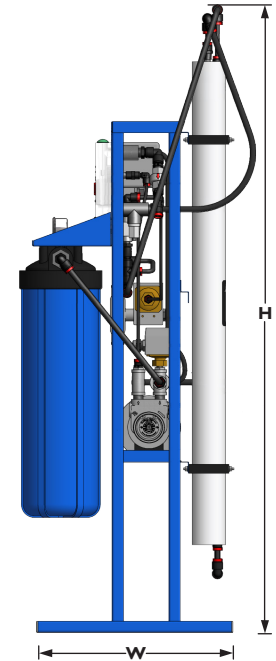
Front View



Rear View



Side View



## Notes

1. System capacity rated at 77°F water temperature and less than 2,000 ppm TDS incoming water quality. Capacity will be lowered with colder water and/or higher TDS.
2. Reject flow is constant during machine operation. Installer to confirm proper floor drain capacity.
3. The installation should allow for additional overhead clearance space for membrane removal (21" for the 500 & 1000 GPD models and 40" for the 1500 & 2500 GPD models).
4. Electrical is 120 VAC, 1-ph, 60 Hz from a standard wall plug. Consult factory for other electrical requirements.