

'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

- 200 to 2500 GPD Output Capacity
- Operating Pressure: 115-150 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

1,000 ppm TDS Max (200-300 GPD) 2,000 ppm TDS Max (500-2500 GPD)

Materials of Construction

- Powder-coated steel wall-mount bracket (200-300 GPD)
- Powder-coated aluminum frame (500-2500 GPD)
- Membrane Elements: Low Energy, Thin-film Composite (TFC)
- Membrane Housings: PVC
- Piping: Sch 80 PVC
- Tubing: Polyethylene

Pump and Motor

- Pump: Rotary Vane, Brass 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
- Operating pressure gauges
- Concentrate and recycle flow control valves (500-2500 GPD)
- Permeate and concentrate flow meters (500-2500 GPD)
- Low inlet pressure switch (500-2500 GPD)

Optional Equipment Available

- Deluxe upgrade package (500-2500 GPD):
 - Product water conductivity monitor
 - Stainless steel feed pump
- Frame-mount design (200-300 GPD)
- Pressurized storage vessels
- Atmospheric storage tanks with level control and repressurization pump

SPECIFICATIONS





MODEL MRO-200											
MODEL NUMBER	RATE	CAPACITY	ELEMENT QUANTITY	RO FEED	RO REJECT	SYSTEM	STEM PIPING CONNECTIO (INCHES)		PUMP	APPROX.	OVERALL DIMENSIONS
	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	SHIP WT. (LBS.)	(LxWxH) (INCHES)
MRO-200	0.14	200	1 2.5x14	0.44	0.3	1/4" Tube	1/4" Tube	1/4" Tube	N/A	42	7x17x32



Frame-mount





MODEL	MRO-	-300								
MODEL	RATE CAPACITY		ELEMENT QUANTITY	EEED		SYSTEN	PUMP			
NUMBER	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	
MRO-300	0.21	300	1	0.51	0.3	3/8"	3/8"	1/4"	N/A	
WITC-300	0.21	300	2.5x21	0.51	0.5	Tube	Tube	Tube	17/7	

Wall-mount



MODEL MRO-500											
RATE MODEL		CAPACITY	ELEMENT QUANTITY	FEED DE IECT (INCHES)		PUMP	APPROX.	OVERALL DIMENSIONS			
NUMBER	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	SHIP WT. (LBS.)	(LxWxH) (INCHES)
MRO-500	0.35	500	2 2.5x21	0.7	0.35	1" NPT	3/8" Tube	3/8" Tube	0.33	65	14x20x27





MODEL MRO-1000											
MODEL	RATE	CAPACITY	ELEMENT QUANTITY	RO FEED	RO REJECT	SYSTEM PIPING CONNEC (INCHES)				APPROX.	OVERALL DIMENSIONS
NUMBER	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	SHIP WT. (LBS.)	(LxWxH) (INCHES)
MRO-1000	0.7	1,000	3 2.5x21	1.4	0.7	1" NPT	3/8" Tube	3/8" Tube	0.5	70	14x20x27





MODEL MRO-1500												
RATE MODEL		CAPACITY	CAPACITY ELEMENT QUANTITY		RO REJECT	SYSTEM PIPING CONNECTIONS (INCHES)			PUMP	APPROX.	OVERALL DIMENSIONS	
NUMBER	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	SHIP WT. (LBS.)	(LxWxH) (INCHES)	
MRO-1500	1.04	1,500	2 2.08	2.08	1.04	1"	3/8"	3/8"	0.75	105	19x23x46	
WINO-1300	1.04		2.5x40	2.00		NPT Tube		Tube	0.73	100	13/20/40	





MODEL MRO-2500											
MODEL	RATE	CAPACITY	ELEMENT QUANTITY	RO FEED					PUMP	APPROX.	OVERALL DIMENSIONS
NUMBER	GPM	GPD	& SIZE (INCHES)	GPM	GPM	INLET FEED	PERMEATE	RO REJECT	HP	SHIP WT. (LBS.)	(LxWxH) (INCHES)
MRO-2500	1.75	2,500	3 2.5x40	3	1.25	1" NPT	3/8" Tube	3/8" Tube	0.75	115	19x23x46



OVERALL DIMENSIONS (LxWxH) (INCHES)

7x25x32

APPROX. SHIP WT. (LBS.)