TOMAR
WATER SYSTEMS INC.TARO Series Commercial RO Systems
2,000-12,000 GPD

TOMAR AUTOMATIC REVERSE OSMOSIS

TARO systems are the first-ever fully automatic commercial sized reverse osmosis machines to offer remote access and control, eliminating the need for frequent technician adjustments or on-site monitoring



- Consistent product water quality and output
- Automatially compensates for feed water variation and membrane aging
- Reduced maintenance requirement and enhanced membrane life
- Greater visibility of performance metrics
- Remote monitoring & control*



*TARO system must be within range of and have access to a wireless router to utilize this feature

CONFIGURATION

The TARO controller can be configured for a wide range of water treatment applications. Set points include:

- Single pass or batch processing
 - Max. product conductivity
 - Max. feed conductivity
 - Max. membrane feed pressure
 - Min. concentrate flow
 - Max. feed temperature

- Min. feed supply pressure
 Max_feed_ORP/pH (option
 - Max. feed ORP/pH (optional)
 - Min. recovery
 - Min. rejectionMax. prefilter pressure drop
 - Max. membrane array pressure drop

OPERATION

The TARO controller offers three primary operating modes:

- Constant Product Flow: TARO monitors and adjusts flow and pressure to maintain a target product flow rate
- **Constant Membrane Feed Pressure:** TARO controls flow and pump speed variables to maintain target input pressure
- Manual: operator inputs values for main pump speed, concentrate flow and recirculation flow operating points

MODELS

• TARO systems are available in the mid-range model sizes of 2,000, 4,000, 6,000, 8,000, 10,000 and 12,000 gallons per day (GPD) product water output, and are also available on Tomar's larger industrial scale system models.

CONTACT US TO LEARN MORE OR FIND A DEALER NEAR YOU

www.TomarWater.com • sales@TomarWater.com • Ph (760) 510-9770



IUMAR WATER SYSTEMS INC.

TARO Series Commercial RO Systems 2,000-12,000 GPD

STANDARD FEATURES

- Frame: welded stainless steel tube
- Membranes: low energy, thin film •
- Pump: SS multi-stage centrifugal
- Sensors: filter inlet/outlet, vessel inlet/outlet, product, brine, recirculation flows
- Filters: 10 micron, 20" pre-filter and SS housing
- Electrical: 208-220V 60Hz 1-phase
- Valves: brine and recirculation PLC controlled SS valves
- Switches: low feed pressure cut-out ٠
- Control Systems: automatic PLC based
- Standard Panel Interface: 3.5" x 7" color touch screen HMI displaying all system performance and control variables

OPTIONS & ACCESSORIES

- Pureflush: membrane permeate flush
- High pressure: high pressure shutoff
- Blend valve
- NANO membranes
- Special membranes
- Special pre/post filter

- 3.4 11 2 Prefilter Pressure Vessel Assembly Pump Moto Motor Relay (not seen) 6 Solenoid Valve Control Panel 7. 8. Main Power Swith HMI Display Control Enclosure 9. 10. Low Pressure Switch 11. 12
 - SS Welded Frame
 - 13 Levelling Feet
- Cleaning skids
- Storage tanks and tank level controls
- Integrated skids
- Repressurization systems
- Base frame & casters
- Antiscalant/chemical injection

SPECIFICATIONS

TARO MODEL	2000	4000	6000	8000	10000	12000
Capacity	2000 GPD (7.6m ³ /d)	4000 GPD (15.1m³/d)	6000 GPD (22.7m ³ /d)	8000GPD (30.2m ³ /d)	10000GPD (37.8m³/d)	12000GPD (43.3m³/d)
Membranes	1	2	3	4	5	6
Connections Feed/Drain/Product	1/2" FPT/ 1/2"QC/ 1/2"QC			1/2" FPT/ 1/2"Hose/ 1/2"Hose		
Concentrate and Recirc. Flow Rate (min.)	3 GPM (0.68m3/h)			6-9 GPM (1.36-2.04m3/h)		
Nominal Recovery (with Recirc Valve)	75%					
Typical TDS Rejection	98%					
Motor Rating	.75HP	1.0HP	1.0HP	1.5HP	2.0HP	2.0HP
Weight Approx. (lbs/kg)	150 (68)	170 (77)	190 (86)	220 (100)	250 (114)	280 (127)
Dimensions (in/cm) (W x D x H) (not incl. crate)	22 x 26 x 49 (56 x 64 x 125)		28 x 32 x49 (56 x 81 x 125)			
*Production rate and TDS rejection are based on membrane performance after 24 hours at 115 psig (10.3bar) net opetating pressure, 77F (25C), pH 7.5, 15%						С), рН 7.5, 15%

recovery on feed water containing 1000ppm TDS. Flow tolerance is +/- 15% Potential membrane foulants such as excessive Iron and Manganese must be removed from the feed stream prior to the system.

OPERATING PARAMETERS

Nominal/Max	150/200 psi (10.3/13.8bar)	Feed pH	3-10	
Operating Pressure		Feed Chlorination	Dechlorination reqd. if >0.1ppm	
Max Feed Temp	110F(43C)	Max Feed TDS	5,000 ppm	

