

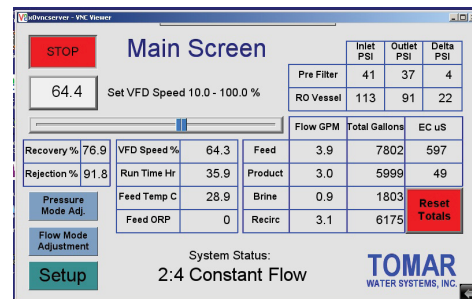
TOMAR AUTOMATIC REVERSE OSMOSIS

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



TARO 4000 GPD

- **Consistent product water quality and output**
- **Automatically 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 (optional)
- Min. recovery
- Min. rejection
- Max. 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

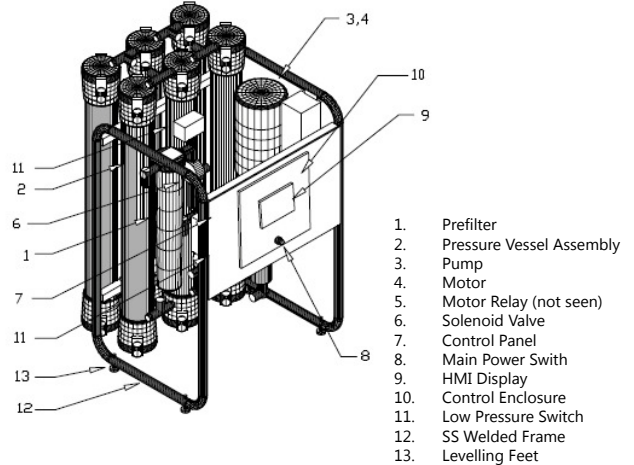
MODELS

- 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.

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STANDARD FEATURES

- **Frame:** welded stainless steel tube
- **Membranes:** low energy, thin film
- **Pump:** SS multi-stage centrifugal
- **Vessels/Filter Housings:** Stainless Steel
- **Sensors:** filter/vessel inlet/outlet, product, brine, recirc. 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
- **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
- 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 (15.1m ³ /d)	6000 GPD (22.7m ³ /d)	8000GPD (30.2m ³ /d)	10000GPD (37.8m ³ /d)	12000GPD (43.3m ³ /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 (0.68m ³ /h)			6-9 GPM (1.36-2.04m ³ /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 x 49 (56 x 81 x 125)		
*Production rate and TDS rejection are based on membrane performance after 24 hours at 115 psig (10.3bar) net operating pressure, 77F (25C), pH 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 Operating Pressure	150/200 psi (10.3/13.8bar)	Feed pH	3-10
		Feed Chlorination	Dechlorination reqd. if >0.1ppm
Max Feed Temp	110F(43C)	Max Feed TDS	5,000 ppm