

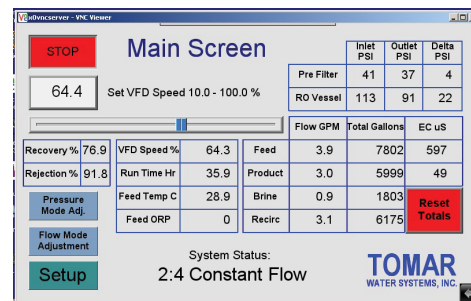
TOMAR AUTOMATIC REVERSE OSMOSIS

TARO systems are the first fully automatic commercial-sized reverse osmosis machines. TARO offers remote access and control, eliminating the need for frequent 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

OPERATION & CONFIGURATION

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 to maintain target input pressure
- **Manual:** user sets custom values for main pump speed, concentrate flow and recirculation

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

Maximum:

- product/feed conductivity
- membrane feed pressure
- prefilter/membrane pressure drop
- feed temperature
- feed ORP/pH

Minimum

- feed supply pressure
- recovery
- rejection
- concentrate flow

MODELS

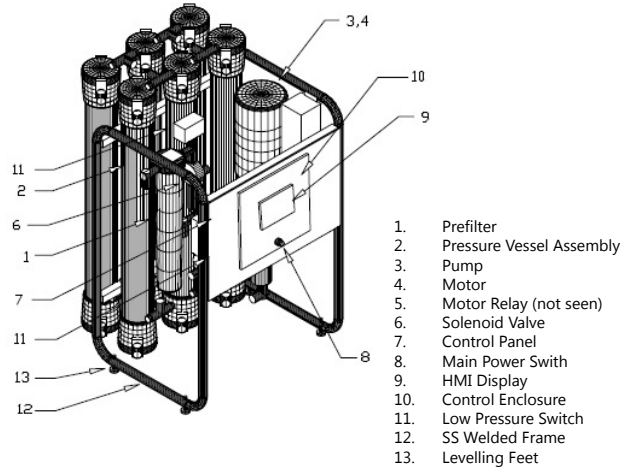
TARO systems are available in the mid-range model sizes of 2,000, 4,000, 6,000, 8,000, 10,000 and 12,000 gallons per day (GPD) product water output, and are also available on Tomar's larger industrial scale system models.

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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

*patent pending 15/947,668



1. Prefilter
2. Pressure Vessel Assembly
3. Pump
4. Motor
5. Motor Relay (not seen)
6. Solenoid Valve
7. Control Panel
8. Main Power Switch
9. HMI Display
10. Control Enclosure
11. Low Pressure Switch
12. SS Welded Frame
13. Levelling Feet

OPTIONS & ACCESSORIES

- Pureflush: flushes membrane with permeate
- High pressure: high pressure shutoff
- Blend valve: adds filtered water to permeate
- NANO membranes
- Special membranes
- Special pre/post filters
- Storage tanks and tank level controls
- Membrane cleaning skids
- Integrated skids
- Repressurization systems
- Base frame & casters
- Antiscalant/chemical injection

SPECIFICATIONS

TARO MODEL	TARO-2000	TARO-4000	TARO-6000	TARO-8000	TARO-10000	TARO-12000
Capacity	2000 GPD	4000 GPD	6000 GPD	8000 GPD	10,000 GPD	12,000 GPD
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			6-9 GPM		
Nominal Recovery (with Recirc Valve)	75%					
Typical TDS Rejection	98%					
Motor Rating	.75HP	1.0HP	1.0HP	1.5HP	2.0HP	2.0HP
System Weight Approx.	155 lbs	175 lbs	190 lbs	220 lbs	250 lbs	280 lbs
System Dimensions	28"W x 32"D x49"H					

*Production rate and TDS rejection are based on membrane performance after 24 hours at 115 psi net operating pressure, 77F, 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	Feed pH	3-10
		Feed Chlorination	Dechlorination reqd. if >0.1ppm
Max Feed Temp	110F	Max Feed TDS	5,000 ppm