



### Description



TV-2000

	TV-2000	TV-4000	TV-6000 - 12000
<b>Frame</b>	Welded stainless steel tube		
<b>Membranes</b>	Low energy, thin-film (high rejection option)		
<b>Vessels</b>	PVC (stainless steel option)		
<b>Pump</b>	Brass Positive Displacement (SS option)	SS Multi-stage Centrifugal	
<b>Gauges</b>	Filter inlet/outlet, Vessel inlet/outlet, SS case, bronze internals, glycerine filled		
<b>Valves</b>	Brine and Recirculation control valves		
<b>Switches</b>	Low pressure cut-out		
<b>Filters</b>	10 micron, 20" pre-filter and housing		
<b>Electrical*</b>	110/220V 50/60Hz 1-phase 220/380/460V, 50/60Hz 3-ph.	220/380/460V 50/60Hz 3-phase	
<b>Connections Feed/Drain/Product</b>	3/4" FPT/1/2" QC/1/2" QC	3/4" FPT/1/2" hose/1/2" hose	
<b>Control System</b>	Microprocessor based		
<b>Standard Panel Instruments</b>	TDS Monitor, Recirculation flowmeter, Brine flowmeter, Product flowmeter		

\*For 220/380/480 voltage/phase options and power specifications, please see the Tomar Electrical Datasheet

### Specifications

Production rate and TDS rejection are based on membrane performance after 24 hours at 115 psig (10.3bar) net operating pressure, 77°F (25°C), pH 7.5, 15% recovery on feed water containing 1000 ppm 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.

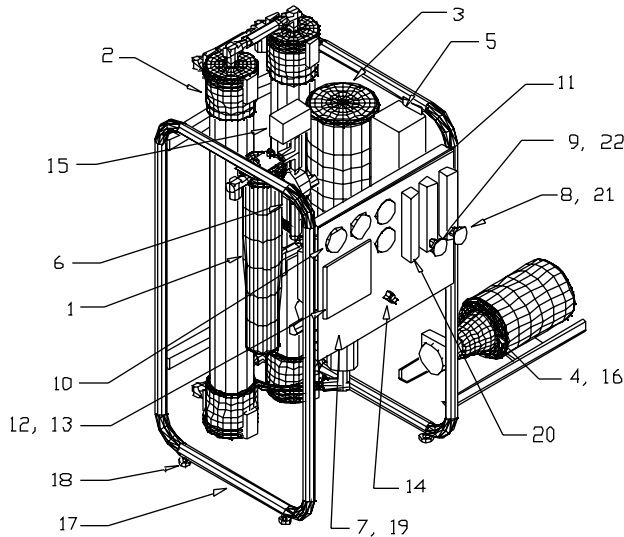
	TV-2000	TV-4000	TV-6000	TV-8000	TV-10000	TV-12000
<b>Capacity</b>	2000 GPD (7.6m <sup>3</sup> /d)	4000 GPD (15.1m <sup>3</sup> /d)	6000 GPD (22.7m <sup>3</sup> /d)	8000 GPD (30.2m <sup>3</sup> /d)	10000 GPD (37.8m <sup>3</sup> /d)	12000 GPD (45.3m <sup>3</sup> /d)
<b>Membranes</b>	1	2	3	4	5	6
<b>Nominal/Maximum Operating Pressure</b>	150/200 psi (10.3/13.8 bar)					
<b>Min. Conc. Flow - Discharge + Recirc</b>	3 gpm (0.68m <sup>3</sup> /h)			6-9 gpm (1.36-2.04m <sup>3</sup> /h)		
<b>Nominal Recovery (with Recirc Valve)</b>	31% (70%)	48% (70%)	58% (70%)	48% (70%)	54% (70%)	58% (70%)
<b>Typical TDS Rejection</b>	98%					
<b>Max Feed Temp</b>	113°F (45°C)					
<b>Feed pH</b>	3-10					
<b>Feed Chlorination</b>	Dechlorination reqd. if >0.1 ppm					
<b>Maximum Feed TDS</b>	5,000 ppm					
<b>Motor Rating</b>	1.0-1.5HP	1.0-1.5HP	1.5-2HP	2.0-3.0HP	3.0-5.0HP	

### System Options

Cleaning Skid • Product Storage Tanks • Tank Level Controls  
Repressurization system • Automatic Flush • Pre/Post Treatment

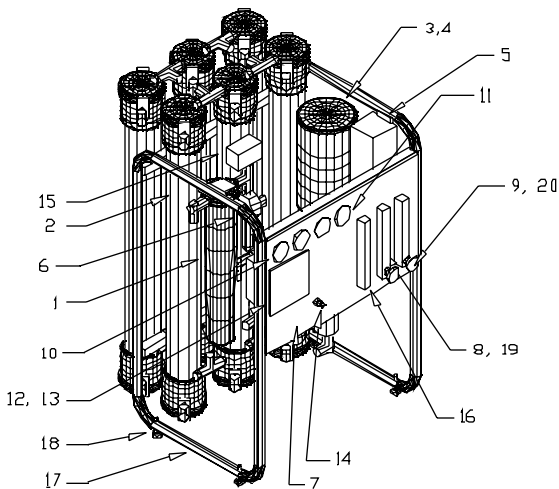


### TV-2000 and TV-4000 System Diagram



- |                                |                           |
|--------------------------------|---------------------------|
| 1. Prefilter                   | 12. PLC Controller        |
| 2. Pressure Vessel Assembly    | 13. Conductivity Monitor  |
| 3. Pump & Motor (TV-4000)      | 14. Main Power Switch     |
| 4. Pump & Motor (TV-2000)      | 15. Low Pressure Switch   |
| 5. Motor Contactor & Ovl. Rly. | 16. Pressure Relief Valve |
| 6. Solenoid Valve              | 17. SS Frame              |
| 7. Monitoring Panel            | 18. Levelling Feet        |
| 8. Brine Control Valve         | 19. Control Panel         |
| 9. Conc. Recirc. Valve         | 20. Product Flow Meter    |
| 10. Prefilter In/Out Gauges    | 21. Brine Flow Meter      |
| 11. Vessel In/Out Gauges       | 22. Recirc. Flow Meter    |

### TV-6000 to TV-12000 System Diagram



- |                                |                             |
|--------------------------------|-----------------------------|
| 1. Prefilter                   | 11. Vessel In/Out Gauges    |
| 2. Pressure Vessel Assembly    | 12. Conductivity Monitor    |
| 3. Pump                        | 13. Tank & PTL Switch Leads |
| 4. Motor                       | 14. Main Power Switch       |
| 5. Motor Contactor & Ovl. Rly. | 15. Low Pressure Switch     |
| 6. Solenoid Valve              | 16. Product Flowmeter       |
| 7. Monitoring Panel            | 17. Frame                   |
| 8. Brine Control Valve         | 18. Levelling Feet          |
| 9. Conc. Recirc. Valve         | 19. Brine Flowmeter         |
| 10. Prefilter In/Out Gauges    | 20. Recirc. Flowmeter       |

### TV-Series System Information

Dimensions and weight are for the system only. Systems are shipped on a boxed frame. A shipping crate is available for an additional charge.

	TV-2000	TV-4000	TV-6000	TV-8000	TV-10000	TV-12000
Weight lbs. (kg)	150 (68)	170 (77)	190 (86)	220 (100)	250(114)	280(127)
Dimensions	22"W x 26"D x 49"H (56 x 64 x 125cm)		28"W x 32"D x 49"H (56 x 81 x 125cm)			