

### TSM REVERSE OSMOSIS WITH ELECTRONIC CONTROLLER

The TSM-E system offers an ultra-compact design with a minimum footprint. An electronic controller offers automated control in cases of low feed pressure and allows for automatic membrane flushing. Perfect for light commercial use in all industries, the TSM-E offers reliable long-term quality water production in an ultra-compact package.

#### SUPERIOR ENGINEERING

Each system is engineered with state of the art technology for optimum performance

#### PROVEN RELIABILITY

Tomar systems have a proven history of consistent, long-term operation

#### PREMIUM MATERIALS

Made only with quality materials including stainless steel vessels, frames, and superior pumps



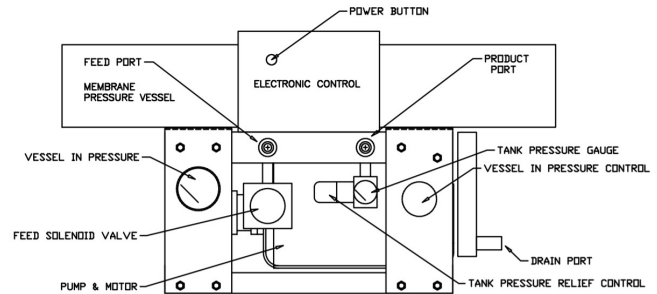
### MODELS

TSM-E systems are available in the small to mid-range model sizes of 400, 800, 1200 & 1500 gallons per day (GPD) product water output.

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### STANDARD FEATURES

- **Frame/Vessel:** stainless steel
- **Membranes:** thin film composite
- **Pump:** positive displacement rotary vane pump
- **Electrical:** 110/220V 60Hz 1-phase (220V option)
- **Control Valves:** feed solenoid valve & SS recirc needle valve
- **Switches:** low feed pressure & tank pressure switches
- **Electronic Controller:** prevents damage from low feed pressure cycling, provides automatic startup & shutdown membrane flush, allows for optional product tank float switch control & pretreat lockout



### OPTIONS & ACCESSORIES

- Product storage tanks
- Atmospheric tank level controls
- Repressurization system
- UV treatment
- Pre/post filters and treatment
- Heavy duty SS wall mounting brackets
- Stainless steel pumps
- Blend valve: adds filtered water to permeate

### SPECIFICATIONS

TSM-E Model	TSM-400E	TSM-800E	TSM-1200E	TSM-1500E
Capacity	0.3 GPM, 400 GPD	0.6 GPM, 800 GPD	0.8 GPM, 1200 GPD	1.1 GPM, 1500 GPD
Membranes	1 Ea. 2521	1 Ea. 4021	1 Ea. 4021	1 ea, 4040
Electrical	110/220V 60Hz 1-Phase, Max Current 10.4A @120V, 5.2A @220V			
Connections Feed/Drain/Product	1/2" Quick Connect Fittings			
Nominal Recovery (with Recirc Valve)	40 to 60%			
Typical TDS Rejection	98%			
Motor Rating	1/3 HP, 1725 RPM, Drip Proof, Thermally Protected	3/4 HP, 1725 RPM, Drip Proof, Thermally Protected		
System Weight Approx. (Dry)	55lbs.	60 lbs.	60 lbs.	65 lbs.
System Dimensions	28"W x 8"D x 12"H	30"W x 8"D x 14"H	30"W x 8"D x 14"H	45"W x 8"D x 14"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	2-11
		Feed Chlorination	Dechlorination reqd. if <0.1 ppm
Max Feed Temp	113F	Max Feed TDS	2500 ppm