

# PERFORMANCE DATA SHEET

## Kinetico TX Membrane System



The Kinetico TX Membrane System uses reverse osmosis technology to reduce the total dissolved solids (TDS) level in water by a minimum of 90%. The system contains its own pressurization system to optimize the production of water through the membrane. System operating pressure shall be between 90 and 130 psi. The system contains an automatic inlet valve, which closes when system is shut down. A low pressure switch will be used to protect pump from cavitation damage during low pressure occurrences. System operation is based on either:

- a normally open operating pressure switch set to a 30/50 psi setting, or
- a normally open contact, closed when the system is shutoff.

## SPECIFICATIONS

### System Components

Inlet Valve.....	1/2" Nickel Plated Brass Solenoid Valve
Pressurization Pump.....	Multi-stage Submersible Pump
Motor.....	3/4" HP NEMA Motor
Membrane Housing (qty.).....	(1) PVC
Primary Membrane (qty.).....	(1) Thin Film Composite 4.0 x 40" (85 ft <sup>2</sup> )
Recirculation Control.....	Fixed Orifice
Drain Control.....	Fixed Orifice
Low Pressure Protection.....	15 psi (1.0 bar) Cut-off Switch
System Shutoff Control.....	N.O. Contact, Close to Shutoff
System Controller.....	Electronic Circuit Board

### Inlet Water Quality

Inlet Flow Rate.....	3 gpm
Inlet Flow Rate - Saltless Mode.....	6 gpm
Operating Pressure Range.....	25 - 70 psi Dynamic Pressure
Temperature Range.....	35 - 90° F
pH Range.....	4 - 10 SU
Free Chlorine Cl <sub>2</sub> (Max.).....	<0.05 mg/L
Hardness as CaCO <sub>3</sub> (Max.).....	<4 gpg
Hardness as CaCO <sub>3</sub> (Max.) - Saltless Mode.....	<30 gpg
Silica (Max.).....	<10.0 mg/L
Iron as Fe (Max.).....	<0.2 mg/L
Total Dissolved Solids (TDS) as NaCl (Max.).....	<2,500 mg/L

### Operating Specs

Daily Residential Production (77° F, 500 mg/L Feed Water).....	500 gallons/day
Permeate Flow Rate.....	1.4 gpm
Reject Flow Rate.....	1.4 gpm
Permeate Flow Rate - Saltless Mode.....	1.2 gpm
Reject Flow Rate - Saltless Mode.....	5 gpm
Reject Rate (NaCl / CaCO <sub>3</sub> ).....	92% / 98%
Maximum Operating Pressure.....	130 psi