



Features

Tomar TP Series industrial reverse osmosis systems are designed to deliver 24,000 to 160,000 GPD (16-111 gpm).



1000,000 GPD System

- ABS control panel, NEMA 4X electrical enclosure, UL/CSA
- Microprocessor control: pre-treat lockout, low feed pressure, product tank full, high TDS
- Microprocessor monitoring: product TDS
- System status and warning lights
- Gauges: Vessel array in/out and filter in/out. SS gauges with bronze internals, glycerin filled and mounted on front panel
- Valves: 316SS brine and recirculation valves, globe-type, mounted in the last vessel brine line
- Prefilter: PVC with 2" MPT ports for a 6" x 20", 10-micron bag
- Pump: 304SS main pump wetted parts
- Frame: Powder coated steel construction on levelers
- Schedule 80 PVC plumbing
- Flow monitoring for product, brine and recirculation

System Options

- pH monitoring
- Pump: 316SS for high TDS feed streams >5000 ppm
- Gauges: 316SS case and internals, glycerine-filled
- Flushing systems: high flow feed water or product water replacement of brine
- Blending system: filtered feed water into product stream
- Filters: SS (304 or 316) feed water filter housing for multiple 5-30 micron, 2.5" cartridges
- Frame casters

Support Options



40,000 GPD System

- Pre treatment
 - Chemical injection for chlorine removal, antiscalant
 - UV sterilization
 - GACF auto-backwash filtration
 - Cartridge or bag filtration
 - Softener
- Buffer tank
- ORP meter for chlorine monitoring
- Boost pump
- Post treatment
 - Chemical injection for chlorine
 - UV sterilization
 - GACF auto-backwash filtration
 - Cartridge or bag filtration
 - pH control
- Product storage: atmospheric or pressure
- Pressurizer systems



Performance Specifications

Product Rate	16 to 111 gpm (3.6 to 25 m ³ /h)
Rejection	95-98%
Recovery (without recycle)	50-80%
Design Temperature	68°F (20°C)

System Specifications

Membrane Type	Thin-film, spiral wound, low energy
Number of Membranes	4-25
Membrane element size	8" x 40"
Array	2x0 to 3x2
Number of pressure vessels	2-5 rated at 300 psi (21 bar)
Elements per vessel	2-5
Size of pressure vessels	8"ID x 98.5 to 218.5" (20.3 x 250 to 555 cm)
Pump	Goulds SVB (304ss), vertical 2" victaulic-type inlet/outlet
Motor	7.5 to 25HP, TEFC
Electrical	High/low voltage, 50/60Hz, 3-phase
Overall Dimensions	110" to 230"W x 36"D x 65"H (279 to 584 x 91 x 165 cm)
Weight	1200 to 2500 lbs (546 to 1136 kg)

Design Basis

Water pressure	Minimum 15 psi (1.03 bar)
TDS	5,000 ppm max
Temperature range	±10°F(5.6°C) design temperature
Chlorine level	Dechlorination reqd. if >0.1 ppm
Turbidity	<1 NTU
SDI	3 max

