

# Titan™ 20,000 Reverse Osmosis System

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- Fully Equipped and Customizable
- Higher Recovery Rates
- Lower Energy Consumption
- High Flow Low-Energy Membranes
- Lower Maintenance
- Compact Space Saving Design
- Individually Wet Tested and Sanitized
- 1-Year Manufacturer's Warranty
- Made in the U.S.A.

Titan Reverse Osmosis Systems feature an excellent pre-treatment design, high quality components and offer high performance. Titan systems are designed for higher recovery rates and minimum energy consumption.

Experience greater savings with lower maintenance and operation costs when you install a Titan Reverse Osmosis System.



Titan 20000  
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# Titan™ 20,000 Commercial Reverse Osmosis System

## Standard Features:

- **Membrane:** Ten 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Ten 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Grundfos® 3 – 5 HP Vertical Multistage Pump and Motor 220 Volt 60 Hertz 3 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated Frame – Corrosion resistant and light weight.
- **Bag Filter:** One 18" FSI® 10 Micron Bag Filter – Removes sediments and protects the system.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Filter Housing:** One 4.5" x 20" Big Grey Double O-Ring Filter Housing – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two PuroTech™ 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauges and Two PuroTech™ 1.5" 0-160 PSI Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter operating pressures.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device which protects the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 220 Volt 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1" Globe Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Rotrol S-150 Computer Controller 220 Volt 60 Hertz with built-in TDS monitor, pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.

- **Flow Meters:** One Product (0-20 GPM) & One Waste (0-20 GPM) PuroTech™ Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

## Optional Features:

- **Stainless Steel Housings:** Ten 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **Fiberglass Housings:** Ten 4" x 40" PuroTech™ Fiberglass Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 PSI and stops when the pressure reaches 60 PSI.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto-Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Re-Circulate w/ Flow Meter:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.
- **Low Energy Membranes:** Lowers operating pressures to 100 psi for lower energy costs and higher flows in lower temperatures.



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## System Specifications

Model	Titan™ 20000	Design	Station
Gallons Per Day	20000 @ 77°F	Dimensions (Approx.)	61" x 33" x 54"
Weight (Approx.)	450 lbs.	Concentrate Re-Circulate	Optional
Auto-Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	10	Motor HP	5
Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1"
Waste Connection	1"		

## System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	30	Maximum Hardness	15 Grains/Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	50
pH Range	3 - 11	Maximum Temperature	105 °F

DISTRIBUTED BY:



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