

O'MEGA 80 - REVERSE OSMOSIS SYSTEM - 20000 GPD @ 77°F



Standard features

Model	O'MEGA 80	Design	Station
Liters / day (GPD)	80 000 @25°C (20000 @ 77°C)	Dimensions en mm	1 600 x 990 x 1370
Weight	415 lbs	Concentrate Re-circulate	Optional
Auto Flush	Optional	Element size	4040 TFC HF1
Membranes	10	Motor HP	5
Voltage	220	Hertz	50
Feed connection	2"	Product connection	1"
Waste connection	1"	Softener	Optional

System specifications

- **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 Goulds® 5 HP Multistage Pump and Motor 220 volt 50 hertz 3 Phase - Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated - Corrosion resistant and light weight.
- **Sediment Filter:** One 18" FSI® Bag 10 Micron 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 down to 5 micron.
- **Filter Housing:** One 4.5" x 20" Big Grey Double O-Ring Filter Housing - Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges - For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch - Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 220 Volt 50 Hertz - Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 3/4" Stainless Steel Needle Valve - Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Rotrol S-150 Computer Controller 220 volt 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) Flow Meters - Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Easy Maintenance & Operation:** O'MEGA reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.



System operating specifications

Minimum Feed Pressure	2.5 bars (35 psi)	Operating Pressure	11 bars (150 psi)
Minimum Feed	30 GPM	Maximum feed	50 GPM
Maximum TDS	2000 ppm	Maximum Hardness	10 °F
Nominal NaCl % rejection	98.5%	Minimum NaCl %rejection	96%
pH range	3-11	Maximum Temperature	37 °C (105°F)

Optional features

- **Stainless Steel Housings.**
- **High Pressure Switch:** One Square D® High Pressure Switch.
- **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/ 0-10 GPM 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.