

# O'MEGA16 - REVERSE OSMOSIS SYSTEM - 4000 GPD @ 77°F



## Standard features

Model	O'MEGA16	Design	Vertical
Liters/day (GPD)	16 000 @ 25°C (4000 @ 77°F)	Dimensions mm (approx)	760 x 965 x 1200
Weight	235 Lbs	Concentrate Re-circulate	Optional
Auto Flush	Optional	Element Size	40x40 TFC HF1
Elements	2	Motor HP	1
Voltage	220 or 110	Hertz	50 or 60
Feed connection	3/4"	Product connection	1"
Waste connection	1"	HydroBlend	Optional

## System specifications

- **Membrane:** Two 4" x 40" TFC HF1 Membranes - For maximum rejection of impurities and high flow.
- **Membrane Housing:** Two 4" x 40" Champ Membrane Housings - Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 1 HP Multistage Pump and Motor 110 or 220 volt 50 or 60 hertz 1 Phase - Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated - Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter - Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block - Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 4.5" x 20" Big White 1 Micron Sediment Filter - Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 4.5" x 20" Big Grey Double O-Ring Filter Housings - 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 McCanns® 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 110 or 220 Volt 50 or 60 Hertz - Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve - Regulates the product to waste ratio



(system's recovery).

- **Computer Controller:** One Minitrol® Computer Controller 110 or 220 volt with pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters - Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **TDS Meter:** One Panel Mount TDS Meter - Provides you with accurate readings of the product water quality.
- **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	6 GPM	Maximum Feed	15 GPM
Maximum TDS	2 000 ppm	Maximum Hardness	10°F (15 grains per US Gallon)
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 Recirculate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.