2000LPH INDUSTRIAL REVERSE OSMOSIS SYSTEM



ABOUT REVERSE OSMOSIS

Reverse Osmosis is the process of removing dissolved elements from your water. For example, if you have a cup of water. Each time you add a teaspoon of sugar, The TDS will increase. So, the more sugar you add, the higher your tds will be. A filter system will not remove the sugar that's dissolved in the water. The only way to remove what's dissolved is the water is to put it through a reverse osmosis system.

Reverse Osmosis is a technology that is used to remove a large majority of dissolved contaminants from water by pushing the water under pressure through a semi-permeable membrane. So if you have to put sweet water through the reverse osmosis system, you will have 2 outputs. Your pure water will have no taste (permeate), and the water water will be more sweet (concentrate)

SYSTEM'S 3D VIEW













FEATURES

- Sediment Filter:
 - 2x 20" Big Blue 5 Micron Sediment Filter that removes sediments and protects the system.
- High Pressure Pump:
 - 1HP Motor Vertical Multi-Stage Pump with flow rate of 1080 Liters/H. High quality
 - stainless steel Shimgi Pump for long-life usage.
- RO Membrane:
 - One of the industry's leading brackish water RO elements Vontron-4040.
- Membrane Housing:
 - 8 x 4.0" x 40" FRP Housing with 300PSI maximum operating pressure.
- Pressure Gauges:
 - Glycerin Filled Gauges for monitoring the system's operating pressure and per liter operating pressures.
- Low Pressure Switch:
 - Safety device to protect the pump from running dry when there is insufficient water feed pressure.
- Solenoid Valves:
 - To assist with the on/off functionality of the system and automatic membrane flush.
- Flow Meters:
 - One Product and One Waste Flow Meters Enables operator to actually adjust product to waste ratio and monitor system's performance.
- Regulator Valve:
 - One Stainless Steel ANSI 316 Needle Valve regulates the product to waste ratio (system's recovery).
- Micro-Computer Controller:
 - A specialized controller designed by Purltech for commercial systems with automatic controls and TDS moni- tors.

SPECIFICATIONS

- RO Membrane: 8 pcs
- RO Pump: 3HP
- Voltage/Hertz: 110V or 220V / 50Hz or 60Hz / Single phase or three phase
- Pipe Size: 1" Feed, 1/2" Permeate, 1/2" Concentrate, 1/2" Flush (BSP thread)

OPERATING PARAMETERS

- Operating Pressure: 180 PSI
- Max. Feed TDS: 1000 ppm
- Normal Salt Rejection: 99%
- Max. Feed Hardness: 15 ppm
- Minimum Salt Rejection: 96%
- Feed pH Range: 3.0 10.0 ppm
- Operating Temperature: 20 C 45 C
- Free Residual Chlorine: 0.1 ppm
- Minimum Feed Pressure: 1.5Kg
- Recovery Rate: 60% 75%