



WaterMax

REVERSE OSMOSIS PLANT



Total Water Solutions

#48, Ground Floor, Pooja Layout (Next to NRI Layout),
Near Sundara Anjaneya Temple, Kalkere, Bangalore - 43.

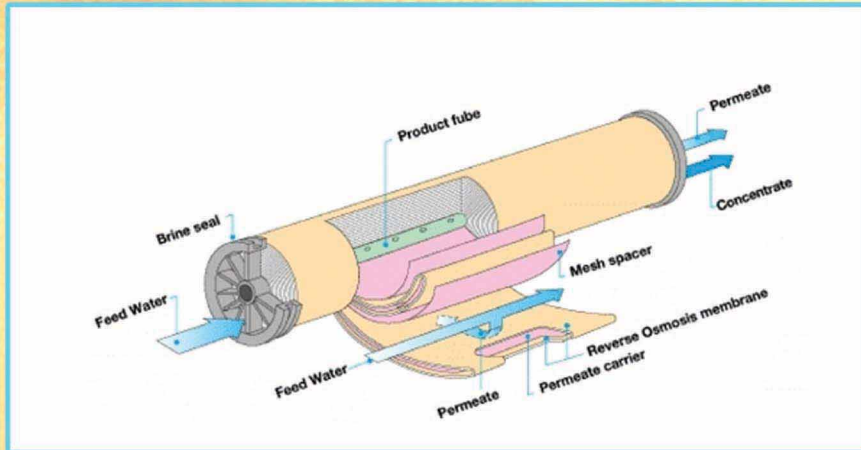
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Reverse Osmosis Plant

Watermax is a reputed reverse osmosis plant provider in the country. Our industry professional's best utilize the company resources for incorporating efficient water treatment mechanism for commercial buildings & industries. The range is designed as per the set industrial norms and clients' specifications.

Our industrial R.O systems, also known as reverse osmosis systems remove bacteria and about 90-95% of the totally dissolved solids (TDS) to provide tasty and safe drinking water right at your industry and Residential.

Typical Membrane Cross-View



Working Principle

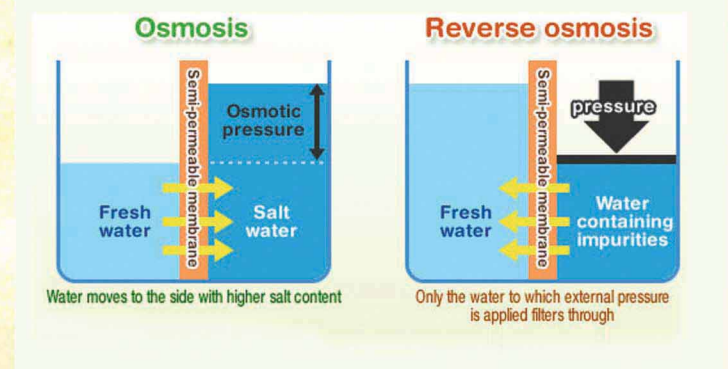
Reverse Osmosis is exactly opposite to Osmosis where the solvent molecules move from the region of higher concentration to a region of lower concentration with the aid of an external pressure which is equal and opposite to the Osmotic pressure.

The RO membrane has a pore diameter of 0.0001 micron (ie., 0.00000004 inches) which is smaller than bacteria (mm to 1 mm) and virus (0.02 mm to 0.04 mm) thereby ensuring effective filtration (99.9%). Such fine pores ensure that up to 95% of the ionic impurities do not escape through the membrane.

Our RO system comprises of

- ◆ 10 /05 Micron Cartridge Pre Filter
- ◆ Flow Switch
- ◆ Pressure Booster Pump
- ◆ Membrane Modules
- ◆ Reject Control Valves
- ◆ Tubing And Fittings
- ◆ Permeate Flow Indicator
- ◆ Pressure Gauges

Mechanism of osmosis and reverse osmosis



Optional Upgrade Packages Include

- ◆ Feed Pump/Flow Switch
- ◆ Pre-Treatment Filter
- ◆ Chemical Dosing Systems
- ◆ Auto Flushing
- ◆ Micro PLC Based Controller
- ◆ CIP System With Cartridge Pre Filter

Standard Instrumentation

- ◆ Rota Meter - Product, Concentrate & Concentrate Recycle
- ◆ Pressure Gauges - Feed, Concentrate & Cartridge Out
- ◆ Conductivity meter - Product
- ◆ Low Pressure switch - - HP Pump & Suction
- ◆ Automatic Shut Off Valve - Feed
- ◆ Spring Check Valve - Permeate
- ◆ Auto Flush Solenoid - Concentrate
- ◆ Ball Check Valve - Recirculate of concentrate

Special Features

- ◆ Product flow rate 0.2 m³ /Hr to 60 m³/h
- ◆ Fully and Semi Automatic
- ◆ Cabinet and Non - Cabinet Type System
- ◆ Maintains floor tiles, marbles
- ◆ Very compact and Skid Mounted
- ◆ On skid Membrane Cleaning System
- ◆ Salt rejection ranges from 90 - 98% depending upon water quality
- ◆ Product recovery ranges from 50 - 80% based on feed water composition.
- ◆ Continuous Water Quality Monitoring through TDS Meter

Advantages

- ◆ Modular design - capacity can be increased to suit requirements.
- ◆ Fully assembled skid, tested prior to shipment, ease of installation and beneficial use.
- ◆ Non-corrosive low pressure piping - virtually maintenance free.
- ◆ Low on energy consumption.
- ◆ User friendly unit - does not require continuous monitoring.
- ◆ Easily handle the hard water.
- ◆ Removes unpleasant smell & odour



Applications



Ultra pure water for electronic industries with combination of DM Plant



Ultrapure water for pharmaceutical industries



Provides Healthy & Hygiene Drinking Water



For Dialysis Application in Hospitals



Process water for manufacturing plants



Boiler feed water with Combination of Softener



Beverage and food processing industry



Bio-technology



Mineral water



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