



WaterMax

REVERSE OSMOSIS PLANT



Total Water Solutions

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

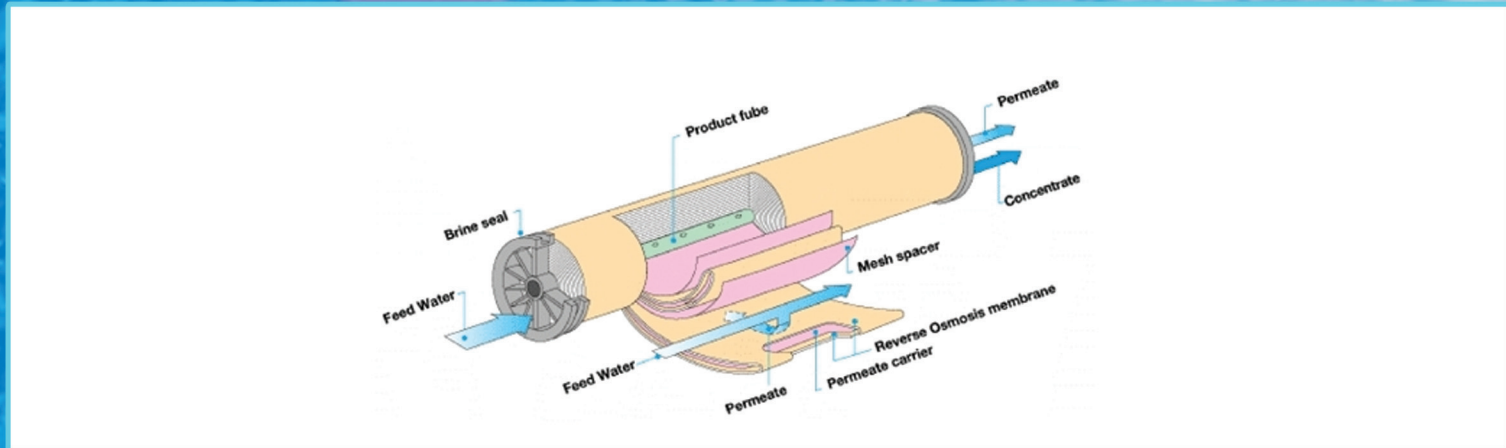
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Reverse Osmosis Plant

Watermax mini ro has been designed and standardized to cater to drinking and low flow process requirements in industrial, commercial establishments and residential use.

Our Mini 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

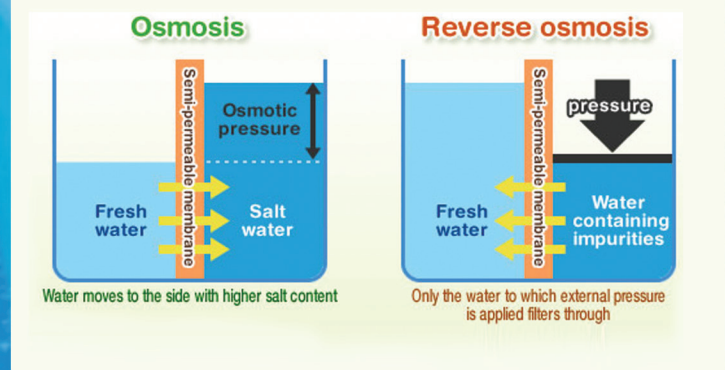


Working Principle

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.

Mechanism of osmosis and reverse osmosis



Typical packaged RO system comprises of

- ◆ Feed Pump
- ◆ Pre Treatment Filter
- ◆ Chemical Dosing Systems
- ◆ 10 /05 Micron Cartridge Pre Filter
- ◆ Flow Meters
- ◆ Pressure Booster Pump
- ◆ Membrane Modules
- ◆ Reject Control Valves
- ◆ Tubing And Fittings
- ◆ Permeate Flow Indicator
- ◆ Pressure Gauges and Pressure Switches

Optional Upgrade packages include

- ◆ Auto Flushing
- ◆ CIP System With Cartridge Pre Filter
- ◆ Auto Multiport Valves
- ◆ Cabinet Skid

Special Features

- ◆ Fully and Semi Automatic
- ◆ Cabinet and Non – Cabinet Type System
- ◆ Very compact and Skid Mounted RO Module
- ◆ SS for High Pressure Line
- ◆ On skid Membrane Cleaning System
- ◆ Salt rejection ranges from 90 - 98% depending upon water quality
- ◆ Product recovery ranges from 40 - 70% 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

Model	FLOW RATE (M3/Hr) Max	Recovery	TDS OF Product Water in ppm	No Of Membranes	Membrane Size	Power Supply
Max Mini RO - 200	200 – 2500	30-40%	<100	01	4"	230 v/415 v
Max Mini RO - 400	400 - 500	30-40%	<100	02	4"	230 v/415 v
Max Mini RO - 600	600	40-50%	<100	03	4"	230 v/415 v
Max Mini RO - 800	800	40-50%	<100	04	4"	230 v/415 v
Max Mini RO - 1000	1000	40-50%	<100	05	4"	230 v/415 v



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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