

Reverse Osmosis System

Description

Reverse Osmosis is a membrane-based technology used to remove dissolved salts from water. The system utilizes, state of the art spirally wound reverse osmosis membranes. According to the size of pores, the membranes are classified as, Low Energy Membranes, Brackish Water Membranes, and Sea Water Membranes. The same is used by H2OMSPL to achieve the Treated Water Quality as per the client's needs. The Treated water from Reverse Osmosis Systems contains very low dissolved solids and which is also free from particulate, colloidal, and organic matter. The systems can remove 90 to 98% Dissolved Solids.

Heat sanitisable RO membranes are mostly used in pharmaceutical industries, these membranes have a higher area, which allows them to design systems with either Low operating flux or cost-saving from fewer membrane elements. The full-fit configuration minimizes stagnant areas and is optimal for applications requiring a sanitary design. Also, Heat sanitizable membranes can withstand higher temperatures to provide sanitization on the Membrane using hot water @ 80 to 85 deg. C, which is an added advantage in the pharmaceutical industry.

Depending on the water quality, RO Systems can work satisfactorily using only Micron cartridge filter as pretreatment but we suggest using Multi-Grade sand filter and Activated Carbon Filter or Ultrafiltration as a pretreatment to increase the life of the system and reduce maintenance costs.



Salient Features

- Low operational costs
- Effective for removal of dissolved salts
- Automatic/Semi-automatic operation
- Sensors to monitor/safeguard the system
- Chemical dosing at inlet of RO provided for longer life



Specifications

- One No. of Feed Pump
- One No. of Pretreatment (as required depending on water quality)
- One Set of chemical dosing system
- One No. of High Pressure Pump
- One set of Membrane Housings (MOC- FRP, SS 304, SS 316)
- One set of RO Membranes
- One set of necessary valves
- One set of sensors and monitors
- One set of Automatic/ Semi-Automatic Controller for system
- One set of Pressure Gauges

Applications

- Reverse Osmosis systems have Industrial, Domestic and Pharmaceutical applications, due to their low operating costs. H2OMSPL provides, Automatic and Semi-Automatic systems as per clients' needs
- H2O MSPL also provides various sensors within the system for proper functioning/ safeguarding of system and achieve the permeate quality as promised to the client. Metallurgy of contact and non-contact parts is selected as per the process requirement.



Some of our Standard Models

Name	Capacity (LPH)
REO-0200F	200
REO-0400F	400
REO-1000F	1000
REO-1500F	1500
REO-2000F	2000
REO-3000F	3000
REO-5000F	5000
REO-7500F	7500
REO-10000F	10000

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