



INDUSTRIAL & PHARMA PACKAGED REVERSE OSMOSIS SYSTEM

The development of industry and the rise of living level have caused water shortage problem in many countries, with DESALITE® Reverse Osmosis technology will production of extremely high quality product and will enlarge the needs of high purity water.

DESALITE® Reverse Osmosis Machine consists of five main equipment sub system such as Guard Filter, High Pressure Pump, Pressure Vessel, Semi Permeable Membrane and Control Logic Panel.

With DESALITE® Reverse Osmosis Machine Water flows selectively out of Concentrate Salt Solution (Concentrate Water) and Low Salt Solution (Permeate Water).

Every feature and detail of DESALITE® Reverse Osmosis Machine has been designed for easy, assured performance and user friendly for simplicity. All Switches, Gauges and Control are readily in view at any location.

The result is the easiest to use, most versatile Reverse Osmosis Machine System ever made.

SYSTEM FEATURES :

Skid and Frame Assembly

Desalite® Reverse Osmosis Machines are manufactured in a skid/frame for ease of installation. Constructed from welded structural carbon steel with corrosion resistant epoxy coating. 304/316 stainless steel frame is available for optional system.

Guard Filter Vessel

Cartridge filter housing is constructed from 304 stainless steel. The filter cartridge is 5.0 micron nominal rating.

High Pressure Pump

Standard Pressure Pump is constructed from GG20 Cast Iron/ 304 Stainless Steel with 380 VAC voltages

Pressure Vessels

Membrane housing is constructed from fiberglass reinforced polyester or 304 stainless steel. Operating pressure is 400 psig.

Membrane Elements

Standard reverse osmosis membrane element, thin film composite in spiral wound configuration. Membrane elements are tested at 99.5% average salt rejection.

Instrument

Pressure Gauges for guard filter, product, reject, RO inlet/pump.
Pressure Switches for RO inlet/pump
Flow Meter for product and reject water
Conductivity Control for product water
Run hour meter for motor pump
pH, ORP and Hardness monitor and Silt Density Index Test (optional system)

System Control

Integrated Panel Control with motor starter, operator switch, push buttons, alarm and indicator lamp. Programmable logic control with touch screen operator control monitor is available for optional system.

Piping and Valves

High standard PVC piping and valve for pressure less than 75 psig. 304 Stainless Steel for higher operating pressure piping with welded fitting.

Membrane Cleaning and Maintenance

Clean in place systems, RO product membrane flush system, and software for RO system performance (optional systems)

