

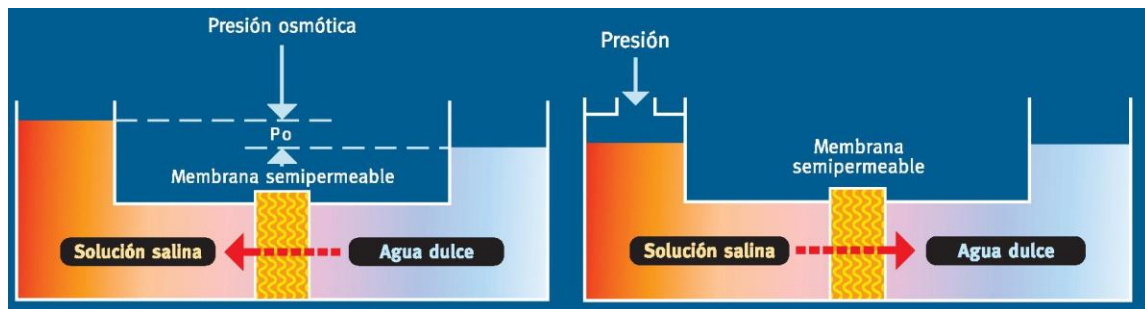
## REVERSE OSMOSIS

In **Romin Engineering** are specialists in the strategic design of reverse osmosis plants, based on the specific needs of each of our clients and the results of water analysis.

What is Reverse Osmosis?

It is known as Reverse Osmosis (RO) to the membrane separation process that is able to reject contaminants as small as 0.0001mm. Therefore, it is the finest level of filtration possible. Lets get in a simple and straightforward desalinated water and free of bacteriological contamination.

Reverse Osmosis is a physical process in which, by applying pressure, water is passed through a semi-permeable membrane from a more concentrated solution to a less concentrated solution, in order to filter out small particles, heavy metals, toxic substances, microorganisms, excess salts, etc..



The water that results from this process is of very high quality.

The complete team consists of Reverse Osmosis pre-filter security 5 um, pressure pump, reverse osmosis modules, control equipment for conductivity and routes.

These teams work continuously and with adequate water pretreatment, require minimal maintenance. Allow obtaining a high quality water suitable for human consumption and for various industrial applications.

### Basic Features Equipment

- TFC Reverse Osmosis Membranes.
- Engine 1 or 3 phases.
- Pre-filter 5 Microns.
- Stainless Steel Pump.
- Typical salt rejection of 98%.
- Immersed in glycerine gauge Stainless Steel.
- Disruption by Low Pressure.
- Water Flow Meter Permeate.

### Optional

- Water Flow Meter Rejected.
- Recycling valve.
- UV Sterilizer
- TDS Monitor
- Membranes for Brackish Water
- Flow Meter Recycled Water
- Stainless Steel Tubes or Fiber
- Stainless Steel Chassis

### Some applications of reverse osmosis

- Water low salt content for production processes in industry.
- Ultrapure water for pharmaceutical industry.
- Water for human consumption.
- Electronics industry.
- Manufacture of food and drink.
- Chemical industry.
- Agricultural and livestock industry.
- Laboratories and cosmetics.
- Hemodialysis.
- Treatment of water for steam generators.
- Cooling towers.
- Water for Injections (WFI).
- Production of ice.
- Drinking water.
- Desalination of seawater.
- Recovery of wastewater.
- Reuse of treated water.
- Irrigation.
- Water Process.
- Water Service.
- Hotels, Shopping Centers.
- Deionized.
- Boilers.

### Commercial RO systems

GPD	Inlet Pipe	No. of Membranes	Membrane Size	Recycle Line	Motor H.P.	Electrical Volts	Phase	Ship. Weight
300	3/4"	1	2.4" x 21"	Yes	0.5	110	Single	70
500	3/4"	2	2.4" x 21"	No	0.5	110	Single	80
1,000	3/4"	1	4" x 21"	Yes	1.0	110	Single	104
1,200	3/4"	1	4" x 40"	No	1.0	110	Single	117
1,800	3/4"	1	4" x 40"	Yes	3.0	230	Single	180
3,600	3/4"	2	4" x 40"	Yes	3.0	230	Single	262
5,400	3/4"	3	4" x 40"	No	3.0	230	Single	341
7,200	3/4"	4	4" x 40"	Yes	3.0	230	Single	349
10,800	1"	6	4" x 40"	Yes	4.0	230	Single	509

**Note:** 300 to 1200 GPD models are packaged in shipping cartons. 1800 GPD models and up are packaged in shipping crates, ready for shipment.