



Mobile Reverse Osmosis Units

for Purified Water Needs



Quick & Reliable Solutions



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MENA-Water – Plug & Play Reverse Osmosis

We provide containerized or skid mounted plants. Reverse Osmosis Systems are capable of removing dissolved salts and other impurities such as bacteria, viruses, and harmful constituents that provides pure potable water and process water, free of toxins, and other contaminants with large molecular weight.

Our plants are designed, engineered, pre-assembled, factory tested with highest quality standards to provide easy and quick shipping, installation in small foot print area and for limited site installation work, low energy, and chemicals demands to save your money and time.

The high quality material and components from leading manufacturers are selected in order to provide quality products and long life time of plant plus smooth operation.

Our systems are suitable to purify and treat seawater, high brackish, and even industrial or municipal water when treated with the Membrane Bioreactor (MBR), external Ultra-filtration, or Nano-Filtration as Pre-Treatment prior to the Reverse Osmosis (RO)

Standard Features

- Filtration and chemical pre-treatment
- 8" & 4" TFC energy-saving membranes
- Membrane FRP pressure vessels
- Corrosion resistant high pressure pumps
- Electrical control panel
- Panel mounted flow meters, TDS, pH, ORP meter/controller
- Low and high pressure switches
- Post and pH adjustment
- Automatic feed shut-off valves
- Pump throttling & concentrate valves
- SS316 liquid filled pressure gauges
- Stainless Steel high pressure piping
- Corrosion resistant steel frame
- Auto-flush system
- Blending: feed/product
- Sample valves
- Energy Recovery for SWRO above 105 CMD

Standard sizes for Brackish & Sea Water RO Plants

| MODEL | MW-RO-70 | MW-RO-150 | MW-RO-300 | MW-RO-600 | MW-RO-1000 |
|-------------------------------|----------|-----------|-----------|-----------|------------|
| Capacity in m ³ /d | 70 | 150 | 300 | 600 | 1000 |

Other sizes on demand



Skid or Containerized

Optional Features

- Double pass plants for lower permeate TDS
- Higher recovery plants
- SS Frame
- TDS monitoring/controller on feed line
- Clean-in place (CIP)
- Additional pre-treatment
- Supply with 60Hz possible
- Ozonation system / UV sterilizers
- Post de ionizer (DI) polishers
- PLC control panel with HMI touch screen controls
- Assembled in an ISO standard shipping container
- Remote monitoring



Operation Specifications

- Feed turbidity < 1 NTU
- Feed SDI : 3-5
- Free oxidant content
- Iron tolerance < 0.05 ppm
- Operate at higher TDS by lowering recovery
- Nominal salt rejection up to 99.8 %
- Max. feed water temperature: 42°C
- Hardness over 1 grains per gallon requires water softener or antiscalant

Applications

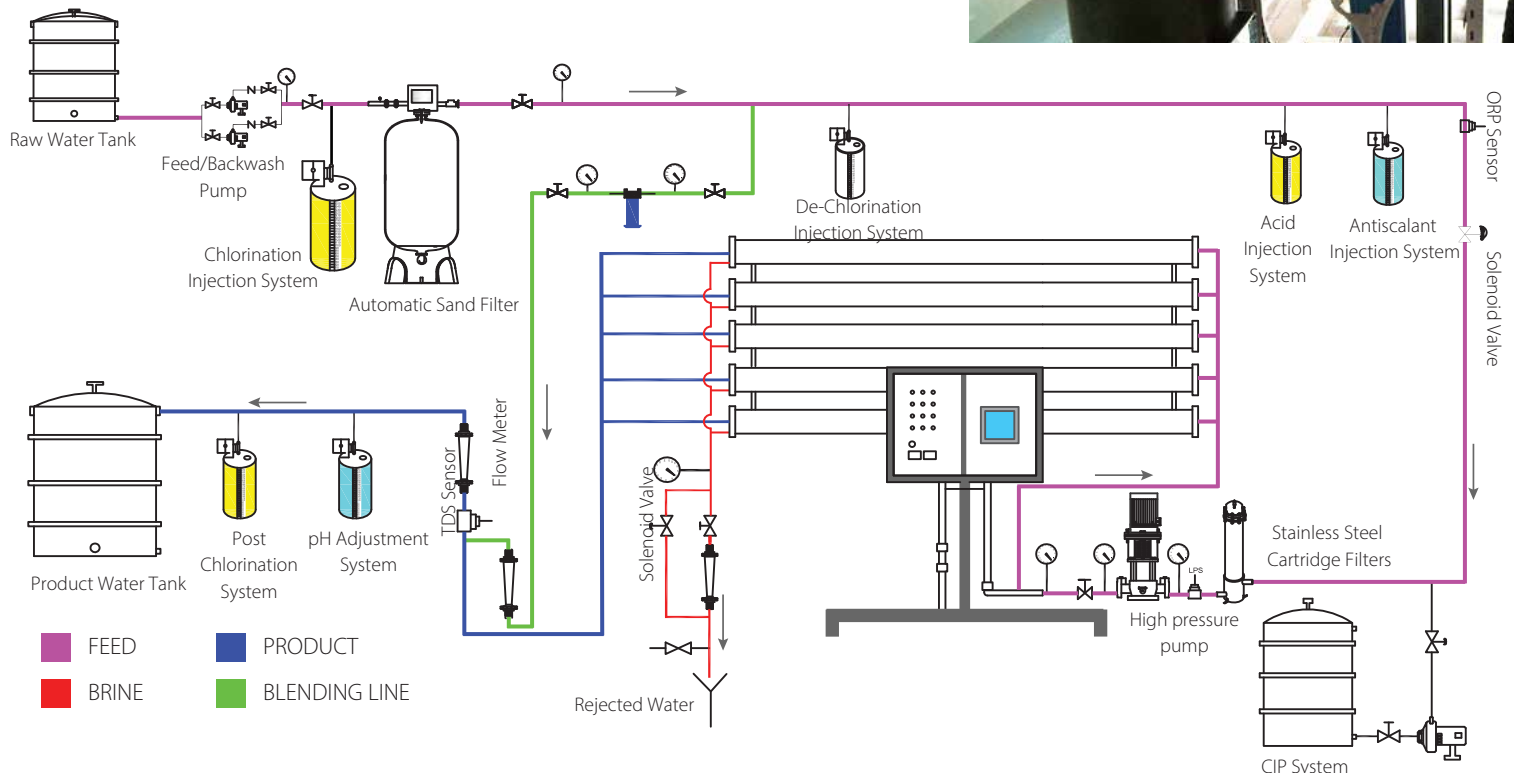
- Drinking Water
- Industrial Applications
- Water Cooling System
- Medical (Kidney Dialysis)



Fields of Application

RO in combination with MBR is the ideal solution for water recycling in many industries.

If waste water is treated with membrane bioreactor (MBR), then it is suitable (SDI < 3) to be followed by Reverse Osmosis system (RO) for valuable resource of high quality recycled water to reduce fresh water and disposals costs.



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