



# Reverse Osmosis System (Municipal)

**Reverse osmosis (RO) system** utilizes membrane separation technology to reduce water TDS and produce quality water for various municipal, commercial and drinking water applications. RO membrane elements use a strong pressure gradient to drive water through small pores of the semi-permeable membrane, while leaving salts and other larger molecules behind. Most RO membrane rejects salts upto 97% of the feed TDS whereas bacteria and virus reductions of 99.7 to 99.9% are also achievable.



For varying feed water TDS, RO systems are usually grouped into tap water, brackish water and sea water RO system. Depending on the feed water quality and end use of RO permeate, specific pre- and post- treatment systems are required for the smooth RO operation. Commonly uses 4" and 8" dia CA or TFC RO membranes. Aqua-RO reverse osmosis systems from Water 2000 offer a cost-effective and sustainable solution for water, wastewater and reuse applications.



Water 2000 offers a best range of AQUA-RO reverse osmosis systems suitable for various municipal and residential applications. AQUA-RO pre-engineered and specifically designed (Customized) systems are manufactured to meet the demands of the pharmaceutical, power, microelectronics, and general industry customer. The standard AQUA-RO systems come in flow rates from 50 GPD to 10 MGPD.

With decades of R&D and standard product development experience devoted to reverse osmosis systems engineering and hundreds of successful installations across the country, you can rely on Water 2000 for your most demanding liquid separation and purification needs using reverse osmosis and nanofiltration technologies. Our portfolio of reverse osmosis systems includes those specifically engineered and designed for municipal applications, medium sized commercial applications, small laboratory applications and trailer-mounted mobile systems for temporary and emergency applications.

## Silent features

- Reliable and compact process design
- Produces consistent quality product water
- Skid mounted system
- SS high pressure pump
- SS high-pressure piping
- SS pre-filter housing for large capacity systems
- Low maintenance
- Low power consumption
- Backed with quick, reliable and efficient after sales service and customer support

- Ensure high efficiency to remove TDS
- Fully automatic operations
- World renown / branded RO membranes
- Corrosion resistant FRP membrane housings
- 5 micron pre-filter (Optional 1 micron also available)
- Quick installation
- Completely leak-free operation
- Simple design for ease of operation, setting and routine maintenance

## Optional features (At an extra cost)

- PLC- control
- Double pass train
- Low pressure membranes
- Permeate recovery of upto 80%

- Selected pre- and post treatment modules
- Module integration
- Membrane cleaning system

## Applications

- Boiler feed water
- Cooling water treatment
- Industrial process water
- Textile dyeing, printing & finishing
- Apartments, condominiums & homes
- Commercial laundries
- Hotels, restaurants & catering

- HVAC systems
- Process industry
- Food & beverage
- Pharmaceutical
- Motels, resorts & restaurants
- Agricultural

- Drinking water
- Energy & power generation
- Dairy industries
- Hospitals, medical and dialysis
- Universities, colleges & schools
- Service stations/ car wash