

PACT is an ISO 9001-2000 accredited specialist manufacturer and supplier of industrial and municipal water and wastewater treatment equipment and plants.

PACT products are the result of years of interaction between PACT engineers, end-users and contractors.

The standard design shown in the attached bulletin may be used as a reference, however, custom design is the norm rather than the exception. PACT builds the equipment to suit the individual application and the governing standards.

PACT engineers have a broad range of expertise in physical, chemical, biological and membrane processes for water and wastewater treatment. In every discipline PACT provides numerous process choices to solve complex treatment problems effectively and economically.

PACT sales and service network has global coverage through company owned regional offices as well as through appointed representatives. This network of service centers and the head office form an integrated organization to serve all users.

PACT products cover the following scope of works:

- Pact Industrial Water & WasteWater Treatment Plants
- Pact Municipal Water & WasteWater Treatment Plants
- Pact Custom Built RO Desalination Plants
- Pact Package Filtration Plants (MF-UF)
- Pact Package Softening Plants (ION Exchange-NF)
- Pact Package Desalination Plants (RO)
- Pact Package Demineralisation Plants (RO-ION Exchange)
- Pact Package Sewage Treatment Plants (MBBR-MBR-Extended Aeration)
- Pact Grey Water Treatment Plants

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WASTEWATER TREATMENT EQUIPMENT & PLANTS



# PACT REVERSE OSMOSIS SYSTEM



ISO9001-2000 Certified for Design, Manufacturing and Servicing of Standard and Custom-Designed and built Equipment and Plants

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## WHAT IS "REVERSE OSMOSIS?"

Reverse Osmosis is a dissolved solids separation mechanism that removes many types of large molecules and soluble ions from solutions by applying pressure to the solution when it is on one side of a selective membrane. The result is that the solute is retained on the pressurized side of the membrane and the pure solvent is allowed to pass to the other side. To be "selective," this membrane should not allow large molecules or ions through the pores (holes), but should allow smaller components of the solution (such as the solvent) to pass freely. RO has large use in industrial applications from tap water

The has large user influestinal applications from tap water - Brackish water and seawater, removing the salt and other substances from the water molecules. This is the reverse of the normal osmosis process, in which the solvent naturally moves from an area of low solute concentration, through a membrane, to an area of high solute concentration. The movement of a pure solvent to equalize solute concentrations on each side of a membrane generates a pressure and this is the "osmotic pressure." Applying an external pressure to reverse the natural flow of pure solvent, thus, is reverse cosmosis."

### WHY PACT REVERSE OSMOSIS ?

- Fully skid mounted systems minimizing site installation labor and duration
- Operator friendly, enhanced by a simple-to-operate HMI console
- Engineered to best available technology and components of leading manufacturers
- Designed for durability, easy maintenance and minimal upkeep cost
- Standard and custom-built systems. The former designed and built to mount standard trailers
- Large volume purchasing power cuts on cost of components which in turn are passed on to our clients

### Fully Skid Mounted Manufacturing Range 15- 25 upto 2500 KLD

( 100 ~ 999 ) PPM
(1000~9999) PPM
(10,000~22,000) PPM
( 22,000~35,000 ) PPM
( 35,000~50,000 ) PPM



Reverse Osmosis Plant

Containerized

Fully Skid Mounted Reverse Osmosis Plant





Custom Built Reverse Osmosis Plant