

# COMPACT & BETA SERIES REVERSE OSMOSIS SYSTEMS

Reverse osmosis (RO) systems are advanced water treatment solutions designed to remove 90-99% of dissolved salts and impurities, producing high-purity water from highly concentrated sources.

The process operates through semi-permeable membranes, where water is forced under high pressure to separate pure water molecules from organic and inorganic contaminants, salts, heavy metals, viruses, and bacteria. Substances that cannot pass through the membrane are discharged as concentrated wastewater.

The effectiveness of an RO system depends on feed water quality and system design parameters. Reverse osmosis is widely used for desalination, concentration of valuable substances, and treatment of low molecular weight dissolved ions. Industrial RO system design requires careful engineering to ensure optimal performance and efficiency.



## STANDARD FEATURES

- TFC spiral winding membrane
- Stainless-FRP membrane housing
- Stainless- electrostatic coated switch
- 5 micron pre cartridge filter
- Input solenoid valves
- Pressure control valves
- Low pressure switch
- Fresh water and waste water flowmeters
- Between 0-25 bar with glycerine monometer (for the system pressure)
- Time-controlled rinsing system
- Electrical panel
- High-pressure pump power circuits
- On-off switch
- Status lights

**COMPACT SERIES REVERSE OSMOSIS SYSTEMS**

Model	Product Size (mm)	Capacity (lt/h)	Membrane Type	Membrane Quantity
RO-Compact 80	560 x 380 x 880	40	25x21	1
RO-Compact 160	560 x 380 x 880	160	40x21	1
RO-Compact 320	560 x 380 x 880	320	40x21	2

**MOBILE SERIES REVERSE OSMOSIS SYSTEMS**

Model	Product Size (mm)	Capacity (lt/h)	Membrane Type	Membrane Quantity
RO-Mobil 250	380 x 605 x 1380	250	40x40	1
RO-Mobil 500	380 x 605 x 1380	500	40x40	2



**BETA & OMEGA SERIES REVERSE OSMOSIS SYSTEMS**

Model	Feed Water flow rate (m³/day)	Product Water Flow Rate (m³/day)	Standard Productivity	Membrane Type	Membrane Quantity
RO 80	3,75	1,5	% 40	25x40	1
RO 160	5	2	% 40	40x21	1
RO 250	10	5	% 50	40x40	1
RO 500	20	10	% 50	40x40	2
RO 750	25	15	% 60	40x40	3
RO 1000	33	20	% 60	40x40	4
RO 1250	42	25	% 60	40x40	5
RO 1500	50	30	% 60	40x40	6
RO 2000	57	40	% 70	40x40	8
RO 2250	64	45	% 70	40x40	9
RO 2500	71	50	% 70	40x40	10
RO 3000	86	60	% 70	40x40	12
RO 3250	107	75	% 70	40x40	15