

REVERSE OSMOSIS (RO)

Industrial 72 - 2400 M³/Day

OVERVIEW

Enviro Concepts Reverse Osmosis (RO) systems are engineered to economically filter water from waste, surface, stored or ground water by membrane filtration. It removes dissolved minerals, bacteria, particles, and organic impurities.

Each RO system is pre-engineered, pre-assembled and factory tested ensuring reliable operation and minimising site installation and start-up time.

Using proven, reliable components, our low energy Thin Film Composite (TFC) RO membranes ensure reliable operation and efficient water purification for water treatment in a wide range of applications.

APPLICATIONS

- Industrial Wash Effluent Treatment
- Storm and Ground Water Treatment
- Mine Accommodation Potable Water Treatment
- Restaurants and Hotels
- Wash Effluent Treatment for Vehicle Wash
- Heavy Vehicle Washdowns
- Logistics and Hire Companies
- Quarantine & Weed/Seed Hygiene
- Energy Suppliers, Resource Industry
- Brackish Water Treatment
- Spot Free Rinse
- Recycled Water Treatment

FEATURES

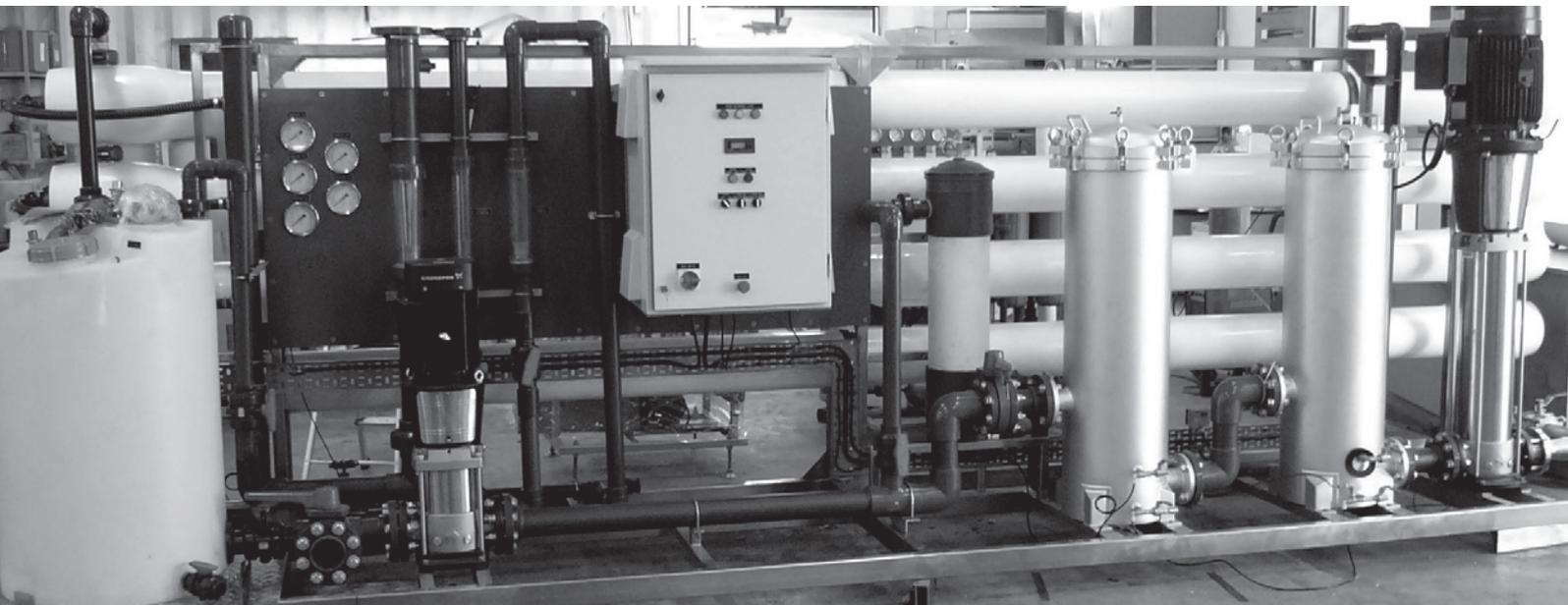
- Brackish Water TFC Membranes
- FRP RO Pressure Vessels
- High Pressure Stainless Steel Pipe
- Vertical Multistage Feed Pump
- Electrical Control Panel
- 5µm Safety Cartridge Guard Filters
- Manual & Electrical Solenoid Control Valve
- Pressure Gauges, Flow Meters
- Permeate Conductivity Meter
- Containerised or Skid Mounted

OPERATING LIMITS

Feed Water Source:	Surface, Ground
Recovery:	70-90%
Operating Temperature:	< 45 deg C
Operating Pressure:	< 20 Bar
Max. SDI (15min):	< 5.0
pH Range:	3 - 10
Feed Max. Turbidity:	< 1.0 NTU
Chlorine Concentration:	< 0.1 ppm
Power Supply:	230-450V, 3 Phases, 50/60 Hz
Power Consumption:	4-140 kW

MEMBRANE SPECIFICATIONS

Membrane Type:	Thin Film Composite (TFC)
Material:	Polyamide (PA)
Charge:	Negative
Configuration:	Spiral Wound, FRP Wrapping
Membrane Size:	Diameter 8" x Length 40"
Effective Area:	400 sq-ft/membrane
Flow Rate:	0.8-1.0 m3/hr/membrane
Nominal Salt Rejection:	99.75%



Model No.	Clean Water Output		Membrane Elements	Line Sizes (mm)			Approx. System Dimensions (mm)			Approx. Weight (KG)
	LPM	m ³ /hr		Inlet	Product	Reject	Length	Depth	Height	
RO 4.2.8	50	3	4	50	38	38	3500	1100	1900	600
RO 9.3.8	80	5	9	50	38	38	4000	1100	1900	900
RO 15.3.8	160	10	15	80	50	50	4000	1100	2000	1200
RO 30.6.8	330	20	30	100	80	50	5500	1500	2000	1800
RO 40.8.8	500	30	40	100	80	50	7000	1500	2200	2500
RO 55.11.8	660	40	55	150	100	80	custom	custom	custom	3300
RO 70.14.18	830	50	70	150	100	80	custom	custom	custom	5000
RO 140.28.8	1,600	100	140	150	100	80	custom	custom	custom	10000