

EcoRO Compact

Compact Reverse Osmosis System



Compact, reliable, and cost-effective reverse osmosis system for process water

EcoRO Compact Reverse Osmosis produces from 250 to 1,000 l/hr flow rates of low conductivity treated water for use across a range of general production applications. These include centralised laboratories, industrial process water, climate control, cooling towers, closed hot water systems, cleaning & product final rinse water, and water reuse.

Reverse Osmosis (RO) is a broad purification process, removing a high proportion of most impurities. These systems can remove up to 98% of dissolved inorganics and over 99% of total dissolved organics, colloids and particles.

The EcoRO Compact is a cost effective and high-performing reverse osmosis system that offers an integral break tank with air gap, inlet filtration, easy installation and operation. It generates high purity water, safely, efficiently and effectively using the latest state of the art low energy membranes .



Features and Benefits

- High efficiency, low energy membranes result in lower operating pressures and cost savings
- Easy operation with a simple-to-use, fully automatic control with display showing permeate conductivity
- 5 micron carbon inlet filter for particulate and chlorine reduction
- An internal AB Airgap break tank and inlet filter
- Alarm output for plant protection
- Flow meters for permeate and concentrate
- 24Vdc Low voltage control
- Emergency stop function via Pilz safety relay
- Built with high quality components
- Low operating costs and total cost of ownership
- Compact, prefabricated, skid mounted system for straight-forward integration, installation and commissioning
- Service and maintenance with access to a network of nationwide after-sales support teams

Additional options

- Timed permeate flush on start-up.
- Permeate storage and distribution skid.
- Water softener plant.

Technical Specification

EcoRO Compact - Flowrate Model		250	500	750	1000
Nominal Permeate Performance*	l/h	250	500	750	1000
Salt Reduction	%	>98			
Recovery Rate (Nom.)	%	75			
System Inlet Pressure (Min/Max)	Bar	2.0 / 6.0			
RO Feed Pressure	Bar	11.1	11.2	11.2	11.3
Raw Water Temperature	°C	5 - 25			
Ambient Temperature	°C	5 - 35			
Raw Water Inlet	BSPM	¾"			
Permeate Outlet	MM	12			
Concentrate Outlet	MM	12			
Length	mm	655	655	800	800
Width	mm	400	400	400	400
Height	mm	1600	1600	1600	1600
Weight (Dry) (approx.)	kg.	80	87	105	112
Electrical Supply	V/ph/Hz	230 / 1 / 50			
Fuse Rating	A	6	6	10	10
Protection Class	IP	54			

* For water quality of 10°C, TDS ≤ 500mg/l ± 15%, SDI ≤ 3.0, oxidants ≤ 0.5 mg/l.

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