



ECOSOFT MO-6 INDUSTRIAL REVERSE OSMOSIS SYSTEM

PURPOSE. Ecosoft MO-6 is an industrial reverse osmosis system for purification of brackish water. Ecosoft RO systems feature simple and efficient design for high recovery low energy operation.



MAIN SPECIFICATIONS:			
Nominal capacity ¹	6 m ³ /h		
Normal recovery rate ¹	75%		
Electrical requirements	400 V, 50 Hz (3 phase)		
Power requirements	7,5 kW		
Membrane elements	Dow Filmtec™ 6 pcs		
Crate dimensions (Height × Width × Depth)	2.3×4.2×1.5 m		
¹ At 15°C, 2000 ppm feed water, ±10%			

KEY ASSETS.

- Energy efficiency with Dow Filmtec[™] XLE membranes and Grundfos pump
- Reliable performance with quality components and engineering
- Individual project evaluation per request
- CE label for electrical safety compliance
- ISO 9001 certified factory

Purified water is used in most sectors of industry. Main applications of Ecosoft RO systems include:

Semiconductor manufacturing	Steam boilers	Textile industry
Pharmaceutical manufacturing	Heat and cooling circuits	Fish farms
Chemical manufacturing	Agriculture	Utility water treatment
Food processing	Insulation glazing	Laundry and car wash
Galvanic and electroplating works	Desalination	Drinking water bottling





MAIN EQUIPMENT.				
Sediment pre-filters				
3 pressure switches				
Float switch				
Conductivity probe				
Anti-vibration pressure gauges and rotameters				
Powder coated steel frame				

OPTIONS.		
Special purpose DOW Filmtec™ membranes	 For problem water with high nitrate, ammonium, TDS, TOC or other water quality issues 	
EMEC dosing pump	ump — For hard water or other water quality issues	
Permeate rinse	 Prolongs membrane life and extends runtime before membrane clean (CIP) 	
Raw water blending	Corrects purified water analysis and increases total flow rate	

EXTENDED SPECIFICATIONS.				
Inlet pressure of water ¹	24	bar		
Operating pressure	710	bar		
Maximum pressure	14	bar		
Influent flow rate during service		812	m³/h	
Influent flow rate during rinse		1620	m³/h	
Connection port sizes:	feed waterpermeateconcentrate	DN50 DN40 DN50		
Dimensions (Height x Width x Depth)	— product — crate	2.0×4.0×1.2 2.3×4.2×1.5		
Weight	— product — cargo	700 950		

 $^{^{1}}$ stable pressure (±0.5 bar) within specified limits is required for sustainable operation





FEED WATER REQUIREMENTS.

1	Total Dissolved Solids	< 3000	mg/L (ppm)
2	Hardness ²	< 150	mg/L CaCO ₃ (ppm CaCO ₃)
3	Iron	< 0.1	mg/L (ppm)
4	Manganese	< 0.05	mg/L (ppm)
5	Hydrogen Sulfide	none	_
6	Silica ²	< 20	
7	Chlorine	< 0.1	mg/L (ppm)
8	Silt Density Index	< 5	mg/L (ppm)

² Higher values can be treated with antiscalant