



Eco Bio Processing

serving the environment

SWRO 520 kL/d

CONTAINERISED SEA WATER REVERSE OSMOSIS SYSTEM FOR POTABLE WATER PRODUCTION



TECHNICAL SPECIFICATIONS:

ITV/SWRO 520

PRODUCTION:	520,000 Litres per day (35-40,000 ppm TDS)	Feed TDS < 45,000 ppm (brackish or sea water)	Product TDS: 500 -700 ppm
SPECIFICATIONS:			
RO Feed HP Pump:	904SS, multistage centrifugal	Safety:	Start/Stop switch + built in motor overload protectors
Energy Recovery Device:	Hydraulic Turbine	Skid:	INOX
Pressure Vessels:	FRP composite/1000 psi max	Fittings:	HP - Duplex 31803/ 316 L LP – Eng grade plastic
Membranes:	42 x Spiral wound/polyamide TFC >99.2% salt rejection	PLC:	Siemens or similar
Pre-Filtration:	UF Membrane	Automation:	Auto on/off + electronic salinity controller
Membrane Care:	Auto Backwash / CIP / Flushing Antiscalant Dosing	Instrumentation:	HP/LP, Level, Flow, Conductivity
MEASUREMENTS:	12.5 m (L) x 2.5m (W) x 2.9m (H)	Tare Weight: 9,000 kg	Gross Weight: 15,000 kg
CONNECTIONS:	Piping	Inlet: Feed	DN 100
	Feed Pressure (min)	Outlet: Product / Reject	DN 80 / DN 100
	Electrical	200 kPa (g)	
		AC400 V; 3ph; 50 Hz (other options available)	Installed /absorbed Power 75/73 kW (approx)
OPERATIONAL:	Energy Consumption	RO System	2.4 - 3.5 kWh/m ³
	Chemicals	Cleaning – NaOH Citric Acid	Pre-treat - Antiscalant Post-treat - Hypochlorite
OPTIONS:	Feed Pre-Treatment System – Hydrocyclone + Flotation / Remote Monitoring / Post Treatment - Hypochlorite Dosing or UV Sterilisation		

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