



Eco Bio Processing

serving the environment

SWRO 150 kL/d

CONTAINERISED SEA WATER REVERSE OSMOSIS SYSTEM FOR POTABLE WATER PRODUCTION



TECHNICAL SPECIFICATIONS:

ITV/SWRO 150

PRODUCTION:	150,000 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:	12 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:	6.3 m (L) x 2.5m (W) x 2.9m (H)	Tare Weight: 5,000 kg	Gross Weight: 7,500 kg
CONNECTIONS:	Piping	Inlet: Feed	DN 50
	Feed Pressure (min)	Outlet: Product / Reject	DN 50 / DN 50
	Electrical	200 kPa (g)	
		AC400 V; 3ph; 50 Hz (other options available)	Installed /absorbed Power 30/25 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		

Switzerland

Rohrerstrasse 100
5000 Aarau

Tel: +41 (0)62 823 55 66

Mob: +41 (0)79 330 30 54

Email: markus.kyburz @ecobioprocessing.it

Italy

Centro Direzionale, Via Cristoforo Colombo 10/A,
20066 Melzo (MI)

Tel: +39 02 95739472

Mob: +39 333 1382387

Email: giorgio.serafin@ecobioprocessing.it

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