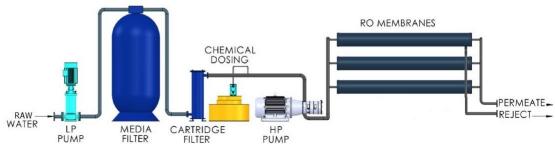
## PRODUCT DATA SHEET

## Brackish Water Reverse Osmosis (BWRO) System

## **OVERVIEW**

Our Brackish Water Reverse Osmosis (BWRO) plants are designed to treat water, with < 4,000 mg/L of dissolved solids (TDS) and < 10 mg/L of suspended solids (TSS), to achieve potable water quality. The standard treatment process involves pre filtration (auto backwashing multimedia filters and cartridge filters), anti-scalant dosing to prevent membrane scaling, RO desalination and auto flushing and CIP systems for membrane cleaning. Additional pre-RO and post-RO treatment steps may be added as required to suit feed water conditions and/or treated water quality requirements. Our BWRO plants are available as skid mounted or containerised systems.





## STANDARD SPECIFICATIONS

Parameter	Units	BWRO-1	BWRO-2	BWRO-3	BWRO-4	BWRO-5	BWRO-6	BWRO-7	BWRO-8	BWRO-9	BWRO-10	
Permeate Flow Rate	m³/h	0,25	0,5	0,75	1	2,5	5	7,5	10	15	20	
Permeate Recovery Rate	%	% 50 - 70										
Permeate TDS	mg/L	mg/L < 100										
Raw Water TDS	mg/L	mg/L < 4,000										
Raw Water TSS	mg/L	mg/L < 10										
Raw Water Temperature	°C	°C 15 ~ 30										
Ambient Design Temperature	°C	°C 15 ~ 30										
RO Water Inlet Pressure	bar	bar 3 - 4										
RO Unit High Pressure	bar	bar 10 - 14										
RO Brine Discharge Pressure	bar	par 9 - 13										
Power Supply	-	AC 220-380~450 V, 3 Phase, 50/60 Hz										
No. Containers (Optional)	-	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	1 x 20'	

Equipment		BWRO-1	BWRO-2	BWRO-3	BWRO-4	BWRO-5	BWRO-6	BWRO-7	BWRO-8	BWRO-9	BWRO-10
Skid Mounted Plant & Equipment		✓	✓	✓	1	1	1	1	✓	✓	1
Low Pressure Feed Pump		✓	✓	✓	1	1	1	1	✓	✓	✓
High Pressure RO	Std Efficiency	1	1	1	1	1	1	1	1	1	1
Pump (c/w ERD)	High Efficiency	_	0	0	0	0	0	0	0	0	0
Pre-filtration	Multimedia	0	0	✓	/	1	1	1	✓	✓	1
	Ultra Filtration	0	0	0	0	0	0	0	0	0	0
	Activated Carbon	✓	✓	✓	1	1	1	1	✓	✓	✓
	Cartridge Filters	✓	✓	✓	1	1	1	1	1	1	✓
Anti Scalant Dosing System		✓	✓	✓	✓	1	✓	1	1	✓	✓
Membrane CIP & Auto Flush System		0	0	0	0	0	1	1	1	1	✓
PLC Control System with HMI		0	0	✓	✓	1	✓	1	1	✓	✓
Container with Insulation & climated		0	0	0	0	0	0	0	0	0	0
Additional Post-RO Treatment		0	0	0	0	0	0	0	0	0	0
Premium Instrumentation Package		0	0	0	0	0	0	0	0	0	0
Permeate Distribution Pump Set		0	0	0	0	0	0	0	0	0	0

Instrumentation	Standard Package				
Pressure Gauges	✓				
Pressure Transmitters (4-20 mA)	0				
HP RO Pump Inlet Low Pressure Switch	✓				
Flow Gauges (Rotameters)	✓				
Flow Transmitters (4-20 mA)	0				
Conductivity Transmitter (4-20 mA)	✓				
Float Switches (Feed/Permeate, Chemical Dosing & CIP Tanks)	✓				
Remote Monitoring & Control Capabilities	0				

	PRICE									
System	BWRO-1	BWRO-2	BWRO-3	BWRO-4	BWRO-5	BWRO-6	BWRO-7	BWRO-8	BWRO-9	BWRO-10
Reverse Osmosis System										
20 ft Container (Insulation & climated)										
CIP Unit										

<sup>\*\*\*</sup> Installation and transportation fee is not included in the stated prices. We will charge 2 technicians and 1 engineer for installation and start-up operations of treatment system. Installation and start-up fee is 500 €/day for each person.





<sup>\*\*\*</sup> CUSTOMER will pay for traveling-visa (Istanbul – Site in XXX – Istanbul), accommodation and food fees for our personnel during site work