

PRODUCT DATA SHEET



Inn Mobile Water Treatment RO Trailer

OVERVIEW

Pre-treated water becomes ready to use at processes by desalination with a ratio of %98 – 99 with reverse osmosis unit. At the inlet of the system water passes from 5 micron sized cartridge filters for protecting membranes. After cartridge filter, water is pumped to membranes by high pressure pump. With high pressure pump reverse of natural osmosis takes place and water desalinates by taking ions. By flushing unit on reverse osmosis unit ions settled on membrane surface can be cleaned.



ADDITIONAL FLOW RATES AND CUSTOMISED SOLUTIONS ARE AVAILABLE. JUST ASK US.

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	m ³ /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	< 100									
Raw Water TDS	mg/L	< 4,000									
Raw Water TSS	mg/L	< 10									
Raw Water Temperature	°C	15 ~ 30									
Ambient Design Temperature	°C	15 ~ 30									
RO Water Inlet Pressure	bar	3 - 4									
RO Unit High Pressure	bar	10 - 14									
RO Brine Discharge Pressure	bar	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'

* For Sea Water Mobile RO Treatment System Design, please contact us info@microsoll.com

STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply, o = Optional Supply, - = Not Applicable

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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Pressure Feed Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High Pressure RO Pump (c/w ERD)	Std Efficiency	✓	✓	✓	✓	✓	✓	✓	✓	✓
	High Efficiency	-	o	o	o	o	o	o	o	o
Pre-filtration	Multimedia	o	o	✓	✓	✓	✓	✓	✓	✓
	Ultra Filtration	o	o	o	o	o	o	o	o	o
	Activated Carbon	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cartridge Filters	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anti Scalant Dosing System	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Membrane CIP & Auto Flush System	o	o	o	o	o	✓	✓	✓	✓	✓
PLC Control System with HMI	o	o	✓	✓	✓	✓	✓	✓	✓	✓
Container with Insulation & climated	o	o	o	o	o	o	o	o	o	o
Additional Post-RO Treatment	o	o	o	o	o	o	o	o	o	o
Premium Instrumentation Package	o	o	o	o	o	o	o	o	o	o
Permeate Distribution Pump Set	o	o	o	o	o	o	o	o	o	o

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

