

# Brackish Water Reverse Osmosis Systems

Capacity: 225,000 to 945,000 GPD

**PUREMATCH 800**

**Series**

The Purematch 800 Series is available with capacities ranging from 225,000 to 945,000 GPD @ recovery rates up to 75%. These units are economically designed for industrial and commercial brackish water applications.



## STANDARD FEATURES

### MAIN ITEMS

- + TFC spiral wound membranes, 8" Dia x 40" Long
- + FRP membrane housing
- + Stainless steel multi-stage pump with TEFC motor
- + Stainless steel 5 micron cartridge prefilter
- + Powder coated steel frame

### ELECTRICAL

- + Power supply: 460 / 3 ph / 60 Hz
- + PLC based control panel featuring:
  - Programmable time delay and set points
  - HMI colored touch screen
  - Alarms red lamps
  - Nema 12 enclosure with disconnect and Inter-lock rotary handle
  - 110V/ 60Hz control voltage
  - Motor starter with over load relays

### INSTRUMENTATION

- + Low pressure switch
- + High pressure switch
- + Liquid filled pressure gauges, 2-1/2" dial size, panel mount for pump suction, membrane feed, inter-stage and final concentrate pressures
- + Permeate TDS / conductivity with programmable set points for high alarms
- + Permeate & concentrate flow monitors

### VALVES

- + Inlet motorized butterfly valve
- + Stainless steel throttling valves
- + PVC isolation valves
- + PVC sample valves

## AVAILABLE OPTIONS

- + 380-415V/3 Ph/50Hz power supply, 220V control panel
- + 230V/3 Ph/60Hz power supply
- + Product tank level controller switch (low & high)
- + Feed pH controller / sensor
- + Feed ORP controller/ sensor
- + Feed TDS/conductivity sensor with % rejection
- + Automatic hourly flush
- + Feed/ permeate blending
- + Media Filter Pretreatment
- + Carbon Filter Pretreatment
- + Chemical dosing system
- + Mixed Bed DI Polisher
- + Membrane cleaning unit
- + Custom designed units
- + Containerized System-20ft/ 40ft Shipping Container

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### OPERATION SPECIFICATION

- + Feed water temperature: 100°Fmax.
- + Feed water pressure 20 - 80 psi
- + Operating pressure :150 to 250 psi
- + Feed water TDS: 1,000 ppm
- + pH range: 3-11
- + Hardness over 1 gpg requires antiscalant dosing
- + Silica tolerance = 10ppm max. @ 75% recovery
- + Feed water SDI: less than 5
- + Turbidity should be removed
- + Hydrogen Sulfide must be removed
- + Iron tolerance: 0.05 ppm Max.
- + Unit can handle higher TDS by lowering recovery

### SPECIFICATION AND DIMENSIONS

Model #	Max. Capacity		8" Membranes		Motor HP		Dimensions	Approx. Wt
	GPD	M3/day	Array	Qty	60 Hz	50 Hz	L" x W" x H"	Lbs
PM8-5684	225,000	852	3:2	30	40	40	350"x72"x80"	4,500
PM8-5784	262,500	994	3:2	35	40	50	390"x72"x80"	4,900
PM8-6784	315,000	1,192	4:2	42	50	50	390"x72"x92"	5,200
PM8-7784	367,500	1,391	5:2	49	60	60	390"x72"x80"	5,750
PM8-8784	420,000	1,590	5:3	56	60	75	390"x72"x80"	6,250
PM8-9784	472,500	1,788	6:3	63	75	75	390"x72"x92"	7,500
PM8-10784	525,000	1,987	6:4	70	75	100	390"x72"x92"	8,500
PM8-11784	577,500	2,186	8:3	77	100	100	390"x72"x80"	9,500
PM8-12784	630,000	2,385	8:4	84	100	100	390"x72"x80"	10,500
PM8-13784	735,000	2,782	10:4	98	125	125	390"x72"x80"	12,000
PM8-14784	787,500	2,981	10:5	105	125	125	390"x72"x80"	13,000
PM8-15784	892,500	3,378	12:5	119	125	150	390"x72"x92"	14,500
PM8-16784	945,000	3,577	12:6	126	150	150	390"x72"x92"	15,500

\* Specifications are subject to change without notice

Metric Units	Pressure (bar) = PSI / 14.5	Power (kW) = HP x 0.746	Weight (Kg) = lbs / 2.2	Dimensions (mm) = inch x 25.4
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\* Purematch 800 can be customized for higher feed water TDS of up to 8,000 ppm and higher recoveries of up to 80%. Please contact factory for details.



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Water and Wastewater Treatment Systems

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