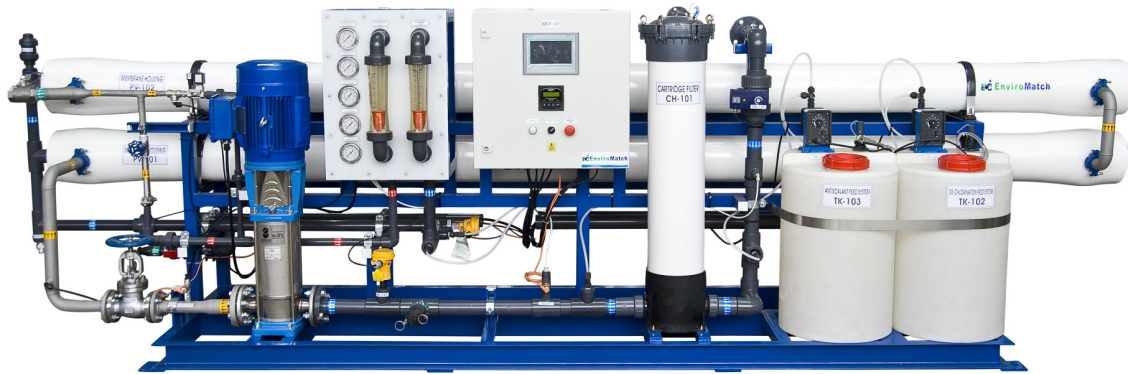


Brackish Water Reverse Osmosis Systems

Capacity: 28,800 to 172,800 GPD

PUREMATCH 700
Series

The Purematch 700 Series is available with capacities ranging from 28,800 to 172,800 GPD @ recovery rates of 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
- + 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
 - Status amber / green lamps
 - Alarms red lamps
 - Nema 12 enclosure
 - 110V/ 60Hz control voltage
 - Motor starter with over load relays

INSTRUMENTATION

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

VALVES

- + Inlet motorized PVC valve
- + Stainless steel throttling valves
- + PVC isolation/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

Brackish Water Reverse Osmosis Systems

Capacity: 28,800 to 172,800 GPD

PUREMATCH 700
Series



OPERATION SPECIFICATION

- + Feed water temperature: 100°Fmax.
- + Feed water pressure 30 - 75 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

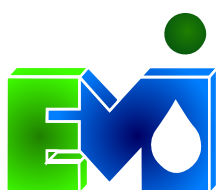
SPECIFICATION AND DIMENSIONS

Model	Capacity		8" Membranes		Motor HP		Dimensions	Approx. Wt.
	GPD	M3/D	Array	Qty	60Hz	50Hz	L" x W" x H"	Lbs
PM7-1480	28800	109	1	4	10	10	160×33×58	2300
PM7-1580	36000	136	1	5	10	10	211×33×58	2350
PM7-1680	43200	164	1	6	10	10	236×36×58	2400
PM7-2480	57600	218	1:1	8	15	15	160×36×58	2500
PM7-2580	72000	273	1:1	10	20	20	216×36×58	2600
PM7-3480	86400	327	2:1	12	20	25	160×48×66	2700
PM7-3580	108000	409	2:1	15	25	25	216×48×66	3200
PM7-3680	129600	491	2:1	18	30	25	236×62×66	3500
PM7-4580	144000	545	2:2	20	30	30	236×62×66	4200
PM7-4680	172800	654	3:1	24	30	40	236×62×66	4800

* 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 700 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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