

Sea Water Reverse Osmosis Systems

FRESHMATCH 800

Series

Capacity: 13,200 to 554,400 GPD

The Freshmatch 800 series is available with capacities ranging from 50 CMD to 2,098 CMD. These units are economically designed for commercial and industrial applications.



STANDARD FEATURES

MAIN ITEMS

- + High rejection membranes elements
- + FRP membrane housing
- + Duplex stainless steel high pressure pump
- + 5 micron corrosion resistant cartridge prefilter
- + Powder coated steel frame
- + Duplex stainless steel energy recovery unit
- + Automatic flushing / freshwater displacement

ELECTRICAL

- + Microprocessor/PLC based control panel featuring:
 - Power supply: 460V/3ph/ 60Hz
 - Programmable time delay and set points
 - HMI colored touch screen
 - Alarms red lamps
 - Nema 12 enclosure
- + 120V/60Hz control voltage
- + Motor starter with over load relay enclosure with disconnect and interlocking rotary handle

INSTRUMENTATION

- + Low pressure switch
- + High pressure switch
- + Liquid filled pressure gauges, 21/2"/41/2" dial size, panel mount for pump suction, membrane feed, and final concentrate pressures
- + Permeate TDS / conductivity monitor panel mounted with programmable set points for high alarms
- + Permeate & concentrate flow monitors / sensors
- + PVC low pressure piping

VALVES

- + Stainless steel high pressure piping
- + Stainless steel reject throttling valve
- + Automatic feed shut-off valve
- + Product 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
- + Membrane cleaning unit
- + Containerized system -20ft/ 40ft shipping container
- + Custom designed units

OPERATION SPECIFICATION

- + Feed water temperature 100°F maximum
- + Feed water pressure 40-80 psi
- + pH range 3-11
- + Feed water SDI: less than 5
- + No turbidity, iron and hydrogen sulfide
- + Turbidity must be removed
- + Iron tolerance: 0.05ppm max.
- + No chlorine / other oxidants that may react with membranes
- + No bacteriological & organic content
- + Maximum operating pressure = 1,000 psi
- + Hydrogen sulfide must be removed
- + Permeate TDS < 500ppm

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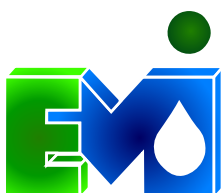
Series



SPECIFICATIONS AND DIMENSIONS

Model No.	Max. Capacity		Membranes		High Pressure Pump Motor HP		For All Models	
	GPD	M3/day	Arry	Qty.	50Hz	60Hz	Dimensions L×W×H (In.)	Aprox.Wt. Lbs
FM8-1384	13,200	50	1	3	15	20	160x48x70	2,750
FM8-1484	17,600	67	1	4	25	25	200x48x70	2,850
FM8-1584	22,000	83	1	5	30	30	240x48x70	3,000
FM8-2384	26,400	100	2	6	30	30	160x48x70	3,250
FM8-2484	35,200	133	2	2	30	30	200x60x70	4,000
FM8-2584	44,000	167	2	10	40	40	240x60x70	4,500
FM8-2684	52,800	200	2	12	50	50	280x60x70	5,000
FM8-3584	66,000	250	3	15	60	60	240x60x80	5,750
FM8-3684	79,200	300	3	18	75	75	280x60x80	6,000
FM8-3784	92,400	350	3	21	100	100	320x60x80	6,300
FM8-4684	105,600	400	4	24	100	100	280x60x80	7,000
FM8-4784	123,200	466	4	28	125	125	320x60x80	7,500
FM8-5784	154,000	583	5	35	150	150	320x60x80	9,000
FM8-6784	184,800	699	6	42	175	175	320x60x90	10,000
FM8-8684	211,200	799	8	48	175	175	280x72x70	11,500
FM8-8784	246,400	933	8	56	200	200	320x72x70	12,000
FM8-10684	264,000	999	10	60	250	250	280x72x80	14,000
FM8-10784	308,000	1,166	10	70	250	250	320x72x80	15,000
FM8-12784	369,600	1,399	12	84	300	300	320x72x90	17,000
FM8-15684	396,000	1,499	15	90	350	350	280x82x80	20,000
FM8-15784	462,000	1,749	15	105	400	400	320x82x80	21,000
FM8-18784	554,400	2,098	18	126	450	450	320x82x90	23,500

* Specifications are subject to change without notice



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Water and Wastewater Treatment Systems

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