

## STANDARD FEATURES:

- ✓ 8" x 40" high efficiency membrane
- ✓ 8" x 40" FRP vessel
- ✓ Product sampling valves per vessel
- ✓ Powder-coated steel frame
- ✓ Stainless steel multi-stage pump
- ✓ Stainless steel throttle valve
- ✓ SCH 80 PVC piping
- ✓ Permeate / Waste / Recycle inline flow meters
- ✓ Liquid-filled system pressure gauge and inlet/outlet pre-filter gauges
- ✓ Feed water low pressure switch
- ✓ Stainless steel feed water inlet solenoid valve
- ✓ Stainless steel recycle & throttle Globe valves
- ✓ Stainless steel waste needle valve
- ✓ Stainless steel Victaulic couplings
- ✓ Dual-level float switch for open storage tank
- ✓ Electrical outlet on frame for antiscalant pump
- ✓ High capacity sediment pre-filter cartridge
- ✓ Small footprint

## ✓ OPERATING PRESSURE @ 150psi

VOLTAGE available: 230v-single, 230v-3ph, 460v-3ph

*Requires 110v-5amp supply*



Model Shown: FMHC-3S

**Optional:  
Digital  
Flow  
Meters**

## STANDARD ELECTRICAL CONTROLS :

- ✓ Menu system with keypad
- ✓ 4-line display
- ✓ Product and feed water TDS monitoring
- ✓ Tank full
- ✓ Permeate temperature display
- ✓ Low pressure
- ✓ System ON/OFF
- ✓ Time delay start
- ✓ Low pressure bypass delay
- ✓ IEC contactor with motor overload relay
- ✓ Pre-treatment lock-out

## Options:

- ▶ Nanofiltration membrane
- ▶ Upgrade to Boron reduction system
- ▶ **Higher operating pressure**
- ▶ Blending valve, stainless steel
- ▶ CIP Clean-in-Place Ports
- ▶ Digital Flow Meters
- ▶ Permeate purge
- ▶ Product Diversion
- ▶ Hi-pressure cut-out
- ▶ 50hz electrical
- ▶ UL listed panel

MODEL	GPD	GPM	Membrane QTY	motor	RECOVERY RATE *Up to:	PIPING inlet waste prod	DIMENSIONS
FMHC-1S	8,640	6+	1	3hp	<b>80%</b>		82" x 40" x 62"H
FMHC-2S	17,280	12+	2	5hp	<b>80%</b>	1-1/2" 3/4" 1"	82" x 40" x 62"H
FMHC-3S	25,920	18+	3	5hp	<b>80%</b>	FPT FPT FPT	82" x 40" x 62"H
FMHC-4S	34,560	24+	4	7.5hp	<b>80%</b>	**	82" x 40" x 62"H
FMHC-5S	44,000	30+	5	7.5hp	<b>80%</b>		82" x 40" x 74"H

**OPERATING PARAMETERS:** Water recovery up to 80% and is field adjusted by customer. It is not recommended that the recovery be set higher than 80%. pH range 3 - 11. Flow rates are determined by the membrane mfg's. testing criteria of 1500 ppm NaCl solution, 77°F water temperature. Typical membrane salt rejection is 95—99%. \*Actual flow rates vary depending on the pre-treatment used, water conditions, feed water temperature, applied pressure and membrane type. Review of feed water analysis report will determine system design, estimated production rate and recovery rate.

**FEED WATER PARAMETERS:** Feed temperature 85° F maximum. \*\*Feed pressure 40 psi minimum to 80 psi maximum. Iron tolerance 0.5 ppm maximum. Hydrogen sulfide must be removed. Silica tolerance can not be higher than 100 ppm in the concentrate stream. Antiscalant should be considered for any levels over 75 ppm. Turbidity should be removed. Hardness and Chlorine must be removed.

**Manufactured by:**

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