

Reverse Osmosis System

Model: ecFMV (economy Frame Mount Vertical)
gpd: 1,800 to 12,000gpd

STANDARD FEATURES:

- ✓ Reverse Osmosis membrane
- ✓ Powder-coated steel frame
- ✓ Stainless steel multi-stage pump
- ✓ Stainless steel membrane vessel
- ✓ Product and waste flow meters
- ✓ Pre-filter IN-OUT gauges
- ✓ Liquid-filled high pressure gauge
- ✓ Feed water inlet solenoid valve
- ✓ Adjstbl. Waste/Recycle s.s. needle valves
- ✓ 10" 5 micron BB pre-filter
- ✓ High-press. brass comp. fittings

STANDARD ELECTRICAL CONTROLS :

- ✓ Fused Off/On safety switch
- ✓ Flow switch to protect from low/no feed water pressure
- ✓ Float switch for water tank
- ✓ 30 amp motor contactor
- ✓ 110v-60hz or 220v-60hz

Options:

- ▶ Low energy, super-high flow Membrane (ideal for low water temp)
- ▶ Nanofiltration membrane
- ▶ Blending valve + TDS monitor
- ▶ Recycle flow meter
- ▶ Throttle valve
- ▶ TDS monitor
- ▶ Upgrade pre-filter to 20" BB



MODEL	GPD	MEMBRANE		RECOVERY RATE	PIPING			DIMENSIONS weight lbs.
		SIZE	Qty Type		inlet	waste	prod	
ecFMV-1	1,800~2,000	4" x 40"	1 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x53"H 135 lbs.
ecFMV-1S	2,500~2,800	4" x 40"	1 Low-energy		FPT	FPT	FPT	
ecFMV-2	3,600~4,000	4" x 40"	2 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x53"H 161 lbs.
ecFMV-2S	4,500~5,200	4" x 40"	2 Low-energy		FPT	FPT	FPT	
ecFMV-3	4,800~5,600	4" x 40"	3 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x53"H 189 lbs.
ecFMV-3S	5,500~6,500	4" x 40"	3 Low-energy		FPT	FPT	FPT	
ecFMV-4	6,300~7,200	4" x 40"	4 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x56"H 230 lbs.
ecFMV-4S	7,000~8,200	4" x 40"	4 Low-energy		FPT	FPT	FPT	
ecFMV-5	8,000~9,000	4" x 40"	5 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x56"H 262 lbs.
ecFMV-5S	9,000~11,000	4" x 40"	5 Low-energy		FPT	FPT	FPT	
ecFMV-6	9,500~10,800	4" x 40"	6 Standard	50—70%	3/4"	1/2"	1/2"	24"x29"x56"H 288 lbs.
ecFMV-6S	10,000~12,000	4" x 40"	6 Low-energy		FPT	FPT	FPT	

FEED WATER PARAMETERS: ●Temperature 85° F maximum ●Pressure 40 - 80 psi maximum ●TDS 2000 ppm maximum. If higher, consult factory
●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 must be removed.

OPERATING PARAMETERS: ●Operating pressure 200 psi maximum ●Water recovery up to 70% and is field adjusted by customer. It is not recommended that the recovery be set higher than 70%. ●pH range 3 - 11 ●Flow rates are determined by the membrane mfg'r's. testing criteria of 1500 ppm NaCl solution, 77°F water temperature, 225 psi at 10-15% recovery. 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 and estimated production rate.