



Reverse Osmosis System

model: FRAME MOUNT VERTICAL
1,600 to 14,400 gpd

STANDARD FEATURES:

- ✓ High efficiency membrane
- ✓ Stainless steel membrane vessel
- ✓ Powder-coated steel frame
- ✓ Stainless steel multi-stage pump
- ✓ TEFC motor
- ✓ Throttle Valve
- ✓ Liquid-filled system pressure gauge and inlet/outlet pre-filter gauges
- ✓ Adjstbl SS Waste/Recycle needle valves
- ✓ Product and Waste Flow Meters
- ✓ Float switch for open storage tank
- ✓ SS Feed water inlet solenoid valve
- ✓ Feed water low pressure switch
- ✓ 20" BB 5 micron sediment pre-filter
- ✓ 110volt—60hz or 220v-60hz

FMV-8S additional standard features:
Recycle Valve, Recycle Flow Meter



STANDARD ELECTRICAL CONTROLS:

- ✓ 4-line LCD display
- ✓ Keypad
- ✓ Menu system
- ✓ Permeate temp display
- ✓ TDS monitor with probe
- ✓ Tank full
- ✓ Low pressure
- ✓ Hour meter
- ✓ Time delay start
- ✓ System On/Off
- ✓ Dual-level float switch

Options:

- ▶ Nanofiltration membrane
- ▶ Pre-Treat Lock-out
- ▶ Hi-pressure cut-off
- ▶ Blending valve
- ▶ Feed water TDS monitor
- ▶ 3ph motor w/IEC motor contactor w/overload relay
- ▶ Recycle flow meter
- ▶ Product diversion
- ▶ 50hz motor
- ▶ Auto hourly flush
- ▶ Permeate purge
- ▶ Electrical outlet for anti-scalant pump

MODEL	*GPD	Feed TDS 2,000 BELOW ABOVE	Membrane 4" x 40" Qty.	motor	Operating pressure	110v- 60hz AMPS	220v- 60hz-1ph AMPS	RECOVERY RATE % * Up to:	PIPING inlet waste prod	DIMENSIONS weight lbs.
FMV-1S	1,800+	●	1 LE	1hp	150psi	11.6	5.8	70%	3/4" 1/2" 1/2"	24"x 29"x 53"H
FMV-1N	1,800+	●	1 NANO	1hp	75-100psi	11.6	5.8	80%	FPT FPT FPT	140 lbs.
FMV-1	1,600+	●	1 HP	1.5hp	200psi	20.0	10.4	70%		
FMV-2S	3,600+	●	2 LE	1hp	150psi	11.6	5.8	70%	3/4" 1/2" 1/2"	30"x 30"x 53"H
FMV-2N	3,600+	●	2 NANO	1hp	75-100psi	11.6	5.8	80%	FPT FPT FPT	166 lbs.
FMV-2	3,170+	●	2 HP	1.5hp	200psi	20.0	10.4	70%		
FMV-3S	5,400+	●	3 LE	1hp	150psi	11.6	5.8	70%	3/4" 1/2" 1/2"	30"x 30"x 53"H
FMV-3N	5,400+	●	3 NANO	1hp	75-100psi	11.6	5.8	80%	FPT FPT FPT	194 lbs.
FMV-3	4,750+	●	3 HP	1.5hp	200psi	20.0	10.4	70%		
FMV-4S	7,200+	●	4 LE	2hp	150psi	19.2	9.8	70%	3/4" 1/2" 1/2"	30"x 30"x 56"H
FMV-4N	7,200+	●	4 NANO	2hp	75-100psi	19.2	9.8	80%	FPT FPT FPT	236 lbs.
FMV-4	6,340+	●	4 HP	3hp	200psi	n/a	13	70%		
FMV-5S	9,000+	●	5 LE	2hp	150psi	19.2	9.8	70%	3/4" 1/2" 1/2"	30"x 30"x 56"H
FMV-5N	9,000+	●	5 NANO	2hp	75-100psi	19.2	9.8	80%	FPT FPT FPT	267 lbs.
FMV-5	7,900+	●	5 HP	3hp	200psi	n/a	13	70%		
FMV-6S	10,800+	●	6 LE	2hp	150psi	19.2	9.8	70%	3/4" 1/2" 1/2"	30"x 30"x 56"H
FMV-6N	10,800+	●	6 NANO	2hp	75-100psi	19.2	9.8	80%	FPT FPT FPT	293 lbs.
FMV-6	9,500+	●	6 HP	3hp	200psi	n/a	13	70%		
FMV-8S	14,400+	●	8 LE	3hp	150psi	n/a	13	70%	1" 1/2" 3/4"	30"x 40"x 56"H
FMV-8N	14,400+	●	8 NANO	3hp	75-100psi	n/a	13	80%	FPT FPT FPT	320 lbs.

OPERATING PARAMETERS: ●Operating pressure range from 150-200 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 mfr'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 and estimated production rate.

* FEED WATER PARAMETERS: ●Feed temperature 85° F maximum ●Feed pressure 40 - 80 psi maximum ●TDS up to 2,000ppm for LE model, 2,000-5,000ppm for HP model ●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.

Manufactured by:

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