

Reverse Osmosis System

Model: FMV (Frame Mount Vertical)
gpd: 1,800 to 10,800+gpd

STANDARD FEATURES:

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

STANDARD ELECTRICAL CONTROLS :

- ✓ 4-line LCD display
- ✓ Keypad
- ✓ Menu system
- ✓ Temperature display
- ✓ TDS monitor with probe
- ✓ Tank full
- ✓ Low pressure
- ✓ Hour meter
- ✓ Time delay start
- ✓ System On/Off
- ✓ Dual-level control
- ✓ Fully-fused



Optional FEATURES:

- ▶ Nanofiltration membrane (Removes 98% hardness, up to 85% TDS, high recovery rate)
- ▶ Blending valve
- ▶ Recycle flow meter
- ▶ Throttle valve
- ▶ 20" BB pre-filter
- ▶ 3phase motor w/IEC
- ▶ 50hz motor
- ▶ Auto hourly flush
- ▶ Feed water TDS monitor
- ▶ Pre-treatment lock-out
- ▶ Product diversion
- ▶ Permeate purge
- ▶ Hi-pressure cut-off

| MODEL | GPD | MEMBRANE | | RECOVERY RATE | PIPING | | | DIMENSIONS weight lbs. |
|-----------------|-------------------------|----------|----------------------------|---------------|----------|----------|----------|--------------------------|
| | | SIZE | Qty Type | | inlet | waste | prod | |
| FMV-1 FMV-1S | 1,800~2,000 2,000+ | 4" x 40" | 1 Standard 1 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 24"x29"x53"H 140 lbs. |
| FMV-2 FMV-2S | 3,600~4,000 4,000+ | 4" x 40" | 2 Standard 2 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 30"x30"x53"H 166 lbs. |
| FMV-3 FMV-3S | 4,500~5,400 5,400 | 4" x 40" | 3 Standard 3 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 30"x30"x53"H 194 lbs. |
| FMV-4 FMV-4S | 6,000~7,200 7,200+ | 4" x 40" | 4 Standard 4 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 30"x30"x56"H 236 lbs. |
| FMV-5 FMV-5S | 7,500~9,000 9,000+ | 4" x 40" | 5 Standard 5 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 30"x30"x56"H 267 lbs. |
| FMV-6 FMV-6S | 9,000~10,800 10,800+ | 4" x 40" | 6 Standard 6 Low-energy | 50—70% | 3/4" FPT | 1/2" FPT | 1/2" FPT | 30"x30"x56"H 293 lbs. |

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.