## Reverse Osmosis System

# Model: FMV (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
- √ 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:

Rev. 02-01-12

- ► Low energy, super-high flow membrane (ideal for low water temp applications)
- ► 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	MEMB SIZE Qty		RECOVERY RATE	PIPING inlet waste prod	DIMENSIONS weight lbs.
FMV-1 FMV-1S	, ,	4" x 40" 1 4" x 40" 1	Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT FPT	24"×29"×53"H 140 lbs.
FMV-2 FMV-2S	-,,	4" x 40" 2 4" x 40" 2	Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT FPT	30"×30"×53"H 166 lbs.
FMV-3 FMV-3S	, ,	4" x 40" 3 4" x 40" 3	Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT FPT	30"×30"×53"H 194 lbs.
FMV-4 FMV-4S	, ,	4" x 40" 4 4" x 40" 4	Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT FPT	30"×30"×56"H 236 lbs.
FMV-5 FMV-5S	_,,,	4" x 40" 5 4" x 40" 5	Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT FPT	30"×30"×56"H 267 lbs.
FMV-6 FMV-6S	9,500~10,800 10,000~12,000		Standard Low-energy	50—70%	3/4" 1/2" 1/2" FPT FPT 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%. OpH range 3 - 11 oFlow rates are determined by the membrane mfgr's. testing criteria of 1500 ppm Nacl solution, 77F 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.

Manufactured by:



E-Mail: <a href="mailto:sales@rosystemsinternational.com">sales@rosystemsinternational.com</a>
Web: <a href="mailto:www.rosystemsinternational.com">www.rosystemsinternational.com</a>
Phone: 951-940-4300 Fax: 951-346-3904