

Quality-built

Can be customized
to your application

GPD: 1,800
to
12,000

Substitute membrane
and achieve
specific results:

LOW ENERGY =
Higher Production,
Lower System Pressure,
Lower Cost Per GPD

NANOFILTRATION =
Higher Recovery Rates,
Energy Efficient,
Removes 98% TDS



Now standard:

Intelligent
Control
Processor

- √ Menu System w/ Keypad
- √ Product water TDS monitoring
- √ Hour Meter
- √ Feed Water Temperature
- √ Tank Full
- √ Low Pressure AND MUCH MORE !

Standard Features:

- Powder-coated steel frame
- Stainless steel multi-stage pump
- Reverse Osmosis membrane
- 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 needle valves, s.s.
- Product/Waste flow meters
- 10" 5 micron BB pre-filter
- High-press. brass comp. fittings
- Up to 60% feed flow recovery rate

Reverse Osmosis

MODEL: Frame Mount Vertical

OPTIONS:

- | | |
|------------------------------|---------------------------|
| Low Energy Hi-flow membrane | Permeate purge |
| Nanofiltration membrane | Product diversion |
| Wall-mounted design | Feed water TDS monitoring |
| Recycle flow meter | Hi-pressure cut-off |
| Automatic flush/manual flush | 3-phase motor |
| Pre-treat lock-out | 50hz motor |

FEED WATER PARAMETERS (standard membrane):

- ◆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 125 ppm in the concentrate stream. Antiscalant should be considered for any levels over 75 ppm.
- ◆Turbidity should be removed
- ◆Hardness over 10gpg should be softened.

OPERATING PARAMETERS (standard membrane):

- ◆Operating pressure 200 psi maximum
- ◆Water recovery is factory set at 33 - 35%
- ◆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 may vary depending on the pre-treatment used, water conditions, system size, membrane array and applied pressure.

MODEL	GPD	MEMBRANE SIZE / Qty	PIPING			DIMENSIONS weight lbs.
			inlet	waste	prod	
FMV-1	1,800~2,000	4" x 40"	1"	1/2"	1/2"	24"x29"x53"H
FMV-1S	2,500~2,800	qty. 1				140 lbs.
FMV-2	3,600~4,000	4" x 40"	1"	1/2"	1/2"	24"x29"x53"H
FMV-2S	4,500~5,200	qty. 2				166 lbs.
FMV-3	4,800~5,600	4" x 40"	1"	1/2"	1/2"	24"x29"x53"H
FMV-3S	5,500~6,500	qty. 3				194 lbs.
FMV-4	6,300~7,200	4" x 40"	1"	1/2"	1/2"	24"x29"x56"H
FMV-4S	7,000~8,200	qty. 4				236 lbs.
FMV-5	8,000~9,000	4" x 40"	1"	1/2"	1/2"	24"x29"x56"H
FMV-5S	9,000~11,000	qty. 5				267 lbs.
FMV-6	9,500~10,800	4" x 40"	1"	1/2"	1/2"	24"x29"x56"H
FMV-6S	10,000~12,000	qty. 6				293 lbs.

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Your Rayne Dealer:

Boyett Family Rayne Water Conditioning

38 E. 5th Ave. Mesa, AZ 85210

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