

Nanofiltration

Recommended for hard water up to 60ppg.
Ideal for treating the "whole house" application.
From 800gpd up to 10,800gpd

An effective, low-cost
alternative for water softening.
High Recovery Rate, typically 70%-75%.
Compare this
to reverse osmosis
recovery of about 50%-60%.



**Production
Rates:
1,800 gpd
to
10,800 gpd**



**Model:
FMV800N**

800GPD

Energy-efficient

The Nanofiltration system runs at a lower operating pressure than the reverse osmosis system.

Removes up to 98% TDS

A selective ion membrane targets the calcium ion, thus removing up to 97% water hardness and up to 85% reduction of total dissolved solids (TDS).



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STANDARD ELECTRICAL CONTROLS:

- ✓ Menu system with keypad
- ✓ Product water TDS monitoring
- ✓ Hour meter
- ✓ Feed water temperature

OPTIONAL CONTROL FEATURES:

___ Auto hourly flush with Manual Flush

Fast forward concentrate flushing every hour for two minute duration. Flushing helps loosen debris from the r/o membrane surface, helping to prolong membrane life.

___ Feed water TDS monitoring

Continually monitors the Total Dissolved Solids in the feed water.

___ Pre-treatment lock-out

Automatically turns off the r/o system during pre-treatment backwashing. NOTE: The pre-treatment control valves must be outfitted with a lock-out micro-switch for this feature to be operational.

___ Product Diversion

Diverts the permeate water to drain on system start-up for two minutes. Mostly used on high-purity water applications where the highest quality water available from the r/o system is directed to the storage tank.

___ Permeate Purge

After r/o shut-down, pure water is directed back to the r/o membrane, purging all concentrated water out of the membrane housing. Ideal for high TDS applications to prolong membrane life.

___ Hi-pressure cut-off

An audible and visual alarm indicates high-pressure condition and shuts off r/o system .

STANDARD SYSTEM FEATURES:

- ✓ Powder-coated steel frame
- ✓ Stainless multi-stage pump
- ✓ FMV800N only: Rotary vane pump
- ✓ Nanofiltration 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

OPTIONAL FEATURES:

- ___ Recycle flow meter
- ___ Tank pressure switch
- ___ Wall Mount
- ___ 3phase motor with IEC motor contactor
- ___ 220v and/or 50hz voltage

*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 125 ppm in the concentrate stream. Antiscalant should be considered for any levels over 75 ppm. ●Turbidity should be removed ●OPERATING PARAMETERS: ●Operating pressure 150 psi maximum ●Water recovery up to 75% and is field adjusted by customer. ●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 may vary depending on the pre-treatment used, water conditions, feed water temperature and applied pressure, etc.*

MODEL	GPD	MEMBRANE	PIPING			DIMENSIONS		
			inlet	waste	prod	WIDTH	DEPTH	HEIGHT
FMV800N	800 ~ 1,000	4" x 21" 1ea.	3/4"	1/2"	1/2"	24"	29"	48"H
FMV-1N	1,800 ~ 2,000	4" x 40" 1ea.	3/4"	1/2"	1/2"	24"	29"	53"H
FMV-2N	3,600 ~ 4,000	4" x 40" 2ea.	3/4"	1/2"	1/2"	24"	29"	53"H
FMV-3N	4,800 ~ 5,600	4" x 40" 3ea.	3/4"	1/2"	1/2"	24"	29"	53"H
FMV-4N	6,300 ~ 7,200	4" x 40" 4ea.	3/4"	1/2"	1/2"	29"	29"	56"H
FMV-5N	8,000 ~ 9,000	4" x 40" 5ea.	3/4"	1/2"	1/2"	29"	29"	56"H
FMV-6N	9,500 ~ 10,800	4" x 40" 6ea.	3/4"	1/2"	1/2"	29"	29"	56"H