

Commercial Reverse Osmosis Equipment Model: Frame Mount Vertical



Typical Model with Options



Typical Standard Model

- Floor standing model with durable powder-coated frame
 - Designed for municipal/tap water source, operating system pressure at 200 psi
 - Quality components utilized for system construction
- Dependable electro-mechanical relay logic control circuit
 - Dual-level tank switches and controls
 - Plumbed for optimum water recovery
 - 12-month (one year) factory warranty



Output Production: 800 gpd up to 10,800 gpd

FRAME MOUNT VERTICAL

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GPD: 1,500 - 10,800

STANDARD FEATURES:

- ✓ Powder-coated steel frame
- ✓ Stainless steel multi-stage pump
- ✓ Thin film composite membrane
- ✓ PVC membrane housing
- ✓ High-pressure nylon tubing
- ✓ Liquid-filled high pressure gauge
- ✓ Liquid-tight wire shrouding
- ✓ Feed water inlet solenoid valve
- ✓ Adjstbl. waste & recycle needle valves
- ✓ Product & waste flow meters
- ✓ 5 micron pre-filter
- ✓ Inlet and outlet pre-filter gauges
- ✓ High-pressure brass comp. fittings
- ✓ Salt rejection 95 - 99%

OPTIONS:

- Stainless steel membrane housings
- Automatic hourly flush
- Manual flush
- TDS monitor (digital or analog)
- Hour meter
- Recycle flow meter
- Tank pressure switch (product)
- Product diversion
- IEC contactor, with overload
- Stainless steel needle valves
- High pressure cut-off w/auto restart and manual override
- Pre-treat lock-out with light
- 50 hz electrical requirement
- Shipping crate
- Other options available upon request

STANDARD ELECTRICAL CONTROLS :

- ✓ NEMA 4 fiberglass enclosure
 - ✓ Off/On switch
 - ✓ Dual level float switches
 - ✓ Low pressure switch
 - ✓ Low pressure bypass delay
 - ✓ Fused control circuit
 - ✓ 24 volt level control circuit
 - ✓ Time delay start
 - ✓ 30 amp motor contactor
- Lights: power, running, low pressure, tank full

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 ◆Hardness must be removed.

OPERATING PARAMETERS:

◆Operating pressure 200 psi maximum ◆Water recovery up to 60% and is field adjusted by customer. It is not recommended that the recovery be set higher than 50%. Only under certain conditions can the recovery be set higher. ◆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. Actual flow rates may vary depending on the pre-treatment used, water conditions, system size, membrane array and applied pressure.

MODEL	GPD (minimum)	MEMBRANE	MOTOR	PUMP	PIPING			DIMENSIONS
					inlet	waste	prod	
FMV-1	1,500 - 2,000	4" x 40" 1ea.	1 HP	multi-stage	3/4"	1/2"	1/2"	24" x 29" x 57"H
FMV-2	3,000 - 4,000	4" x 40" 2ea.	2 HP	multi-stage	1"	1/2"	1/2"	24" x 29" x 57"H
FMV-3	4,500 - 6,000	4" x 40" 3ea.	2 HP	multi-stage	1"	1/2"	1/2"	29" x 29" x 61"H
FMV-4	6,000 - 8,000	4" x 40" 4ea.	3 HP	multi-stage	1"	1/2"	1/2"	29" x 29" x 61"H
FMV-5	7,500 - 9,000	4" x 40" 5ea.	3 HP	multi-stage	1"	1/2"	1/2"	29" x 29" x 61"H
FMV-6	9,000 -10,800	4" x 40" 6ea.	3 HP	multi-stage	1"	1/2"	1/2"	29" x 29" x 61"H

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