

Reverse Osmosis System

Model: FS (Filtration Station)
gpd: 1,800 to 7,200+gpd

STANDARD FEATURES:

- ✓ Reverse Osmosis membrane
- ✓ Twin tank water softener w/auto backwash
- ✓ Carbon filter w/auto backwash
- ✓ 5 micron pre-filter
- ✓ Stainless steel multi-stage pump
- ✓ Stainless steel membrane vessel
- ✓ Adjstbl. waste/recycle needle valves, s.s.
- ✓ Product/waste flow meters
- ✓ 1HP s.s. repressurization
- ✓ Two 20" GAC carbon block post-filters
- ✓ Pre and post-filter gauges
- ✓ System PSI gauge
- ✓ 24gpm ultraviolet water sterilizer, s.s.
- ✓ Stainless steel pre-treatment jackets
- ✓ Marine-grade back panels
- ✓ Powder-coated steel frame w/casters
- ✓ Two 300 gallon water storage tanks



Dims: 108" x 31" x 66"H



Stainless steel table, optional

STANDARD ELECTRICAL CONTROLS :

Optional FEATURES :

- | | | | |
|--------------------------|----------------------|---------------------------|--------------------------|
| ✓ 4-line LCD display | ✓ Low pressure | ▶ Nanofiltration membrane | ▶ Auto hourly flush |
| ✓ Keypad | ✓ Hour meter | ▶ Blending valve | ▶ Feed water TDS monitor |
| ✓ Menu system | ✓ Time delay start | ▶ Recycle flow meter | ▶ Pre-treatment lock-out |
| ✓ Temperature display | ✓ System On/Off | ▶ Throttle valve | ▶ Product diversion |
| ✓ TDS monitor with probe | ✓ Dual-level control | ▶ 20" BB pre-filter | ▶ Permeate purge |
| ✓ Tank full | ✓ Fully-fused | ▶ 3phase motor w/IEC | ▶ Hi-pressure cut-off |
| | | ▶ 50hz motor | ▶ Ozone |

MODEL	GPD	MEMBRANE		RECOVERY RATE	PIPING		
		SIZE	Qty Type		inlet	waste	product
FS-1	1,800-2,000	4" x 40"	1 Standard	50—70%	3/4"	1/2"	1/2"
FS-1S	2,000+	4" x 40"	1 Low-energy		FPT	FPT	FPT
FS-2	3,600-4,000	4" x 40"	2 Standard	50—70%	3/4"	1/2"	1/2"
FS-2S	4,000+	4" x 40"	2 Low-energy		FPT	FPT	FPT
FS-3	4,500-5,400	4" x 40"	3 Standard	50—70%	3/4"	1/2"	1/2"
FS-3S	5,400+	4" x 40"	3 Low-energy		FPT	FPT	FPT
FS-4	6,000-7,200	4" x 40"	4 Standard	50—70%	3/4"	1/2"	1/2"
FS-4S	7,200+	4" x 40"	4 Low-energy		FPT	FPT	FPT

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.