



F-801 Portable

Medical Device

Reverse Osmosis System 1580 ml/min

Standard Features

- Specially designed RO system and cart for use with the Fresenius hemodialysis machine.
- Advanced performance monitoring includes percent rejection and a digital display of product water total dissolved solids (TDS) as mg/L. For added safety, an audible alarm with adjustable set points is incorporated into the TDS monitor. The monitoring and instrumentation meet the standards recommended by the Association for the Advancement of Medical Instrumentation (AAMI).
- Panel mounted pressure gauges continuously display pump and product pressures while in-line pressure gauges display pre-filter inlet and outlet pressures.
- Space-efficient design built for easy portability.
- Chemically compatible with 1% Minncare® Cold Sterilant disinfectant solution.
- Stainless steel RO pump and stainless steel pressure vessels are used for maximum strength, reliability, and longevity.
- Thin film RO membrane for high permeate quality and long life.
- Product water recirculation returns the excess product water into the feed stream, which reduces stress on the RO membranes, increases permeate quality, conserves water, inhibits bacterial growth and lowers operating costs.
- FDA registered manufacturer meets stringent medical device requirements.



- The F-801 is listed by the Canadian Standards Association as certified (CAN/CSA C22.2 No. 601.1 – M90 and UL Standard No. 60601-1).
- Color-coded fittings for easy visual line connections.

Optional Features

Mar Cor Purification offers a complete line of components and accessories to support the F-801 Reverse Osmosis system, including:

- Water Softeners
- Hardness & Total Chlorine Test Kits
- Carbon Tanks
- AAMI Water Analysis
- Sediment Filters
- High & Low pH Cleaners

F-801 Specifications

Model	F-801
Nominal Product Flow Rate at 77 F (25 C)	1580 ml/min 24.8 gallons/hr (93.9 L/hr)
Machine Recovery Rate	44% (maximum)
Dry Weight	95 lbs. (43 kg)
Power Required	115 V, 60Hz 8 amps
Dimensions (of Assembled Unit)	Wide - 25" (63.5 cm) Depth - 32" (81 cm) Height - depends on dialysis machine

NOTE: Initial product flow rate based upon membrane manufacturers' specifications of pretreated feed water, 200 psi (14 bars) applied pressure, 77°F (25°C) incoming water temperature, 1,000 ppm (mg/L) NaCl, 10% recovery and 1 psi (0.07 bars) product pressure. Membrane flux may vary ± 10%.

Operational Parameters

pH	Operating: 5.5-10.5	Cleaning: 2-11
pH with Chloramines	Operating: 5.5-8.5	Cleaning: 2-11
Temperature	50-90°F (10-32°C)	
<i>Water production decreases approximately 1.5% per 1°F (3% per 1°C) incoming water temperature drop.</i>		
Inlet Pressure (Dynamic)	Minimum: 30 psi (2 bars)	Maximum: 100 psi (7 bars)
Inlet Water Flow	Minimum: 2 gpm (7.6 L/m)	
Total Hardness	100 ppm (mg/L) (pH dependent)	
Silt Density Index (SDI)	<5	

Note: Detailed analysis of the feed water will dictate the components, if any, needed in pre- or post-treatment of the F-801 RO unit. This will help assure a constant supply of water, meeting AAMI Dialysis Water Quality Standards.

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