

## M4 Series RO

Reverse Osmosis System 60 Hz  
2,200 to 13,200 GPD

Our M4 Series RO machines are designed for international medical applications. M4 systems are known for durable operation, high quality product water production, easy installation and straightforward control. In addition, the M4 Series Reverse Osmosis System is manufactured in an FDA registered facility.

### Standard Features

- Low-energy design reduces electrical requirements and operating costs
- 5-micron pre-filter
- Automatic inlet shut-off valve
- Permeate and concentrate flow meters
- Remote machine on/off capability
- Thermal motor protection
- Pre/Post-filter, primary, and final pressure gauges
- Flow control center including concentrate and recycle valves
- Autoflush system
- Low inlet pressure switch
- Digital conductivity meter
- Alarms: Low inlet pressure, motor starter overload
- Chemically compatible with 1% Minncare® Cold Sterilant disinfectant solution

### Operating Parameters

- Operating Pressure: 100–140 psi (6.9–7.6 bar)
- Maximum Water Recovery: 75%
- Nominal Rejection: 95–98%
- Design Temperature: 77°F (25°C)
- Operating Temperature: 55–85°F (13–30°C)
- Minimum Inlet Pressure: 30 PSI (2 bar)

## Medical Device



### Materials of Construction

- Welded Frame: Powder-Coated Carbon Steel
- Membrane Elements: 4x40 TFC
- Membrane Housing: Stainless Steel
- Inlet Plumbing: Sch. 80 PVC
- High Pressure Plumbing: Reinforced Rubber Hose
- Permeate/Concentrate Tubing: Polyethylene
- Control Enclosure: NEMA 1
- Motor Starters: NEMA 4X
- Cartridge Filter: 5 micron, 20 inch (51 cm)

### Pump and Motor

- Pump: Multi-Stage, Centrifugal Pump SS Shell/Housings, Noryl\* Internals, SS Inlet/Discharge Castings
- Motor: 3-Phase, TEFC, 208–230/460 VAC, 1-Phase, TEFC, 220 VAC (2200 and 4400 Models Only)

# Technical Data

M4 Series RO Specifications 60 Hz						
Model	M4-2200	M4-4400	M4-6600	M4-8800	M4-11000	M4-13200
<b>Part Number</b>						
208VAC	1235775	1235778	1235781	1235794	1235797	1235800
230VAC	1235776	1235779	1235792	1235795	1235798	1235801
460VAC	1235777	1235780	1235793	1235796	1235799	1235802
<b>Recovery Rate</b>						
	50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
<b>Permeate Rate</b>						
gpm	1.5	3	4.5	6	7.5	9
L/m	5.7	11.4	17.0	22.7	28.4	34.1
<b>Concentrate Rate</b>						
gpm	1.5-0.5	3-1	4.5-1.5	6-2	7.5-2.5	9-3
L/m	5.7-1.9	11.4-3.8	17.0-5.7	22.7-7.6	28.4-9.5	34.1-11.4
<b>Pump and Motor</b>						
HP (KW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	2 (1.5)	2 (1.5)
	SS1809X	SS1809X	SS1809X	SS1809X	SS1812X	SS1812X
<b>Membrane Elements</b>						
Number	1	2	3	4	5	6
Array	1	1-1	1-1-1	1-1-1-1	2-1-1-1	2-2-1-1
<b>Piping Inch (cm)</b>						
Inlet	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
Permeate	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
Concentrate	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
<b>Approximate Overall Dimensions Inch (cm)</b>						
Height	50 (127)	50 (127)	55 (139)	55 (139)	60 (152)	60 (152)
Width	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)
Depth	20 (51)	20 (51)	20 (51)	26 (66)	26 (66)	26 (66)
<b>Approximate Shipping Weight</b>						
lbs (kg)	170 (77)	185 (83)	215 (98)	235 (107)	325 (147)	345 (156)

Minncare® is a registered trademark of Minntech Corporation, a Cantel Medical Company  
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