



M4 Series RO

Reverse Osmosis System 50 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 190/380 VAC, 1-Phase, TEFC, 220 VAC (2200 and 4400 Models Only)

Technical Data

M4 Series RO Specifications 50 Hz						
Model	M4-2200	M4-4400	M4-6600	M4-8800	M4-11000	M4-13200
Part Number						
	1235803	1235804	1235805	1235806	1235807	1235808
Recovery Rate						
	50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate						
gpm	1.5	3	4.5	6	7.5	9
L/m	5.7	11.4	17	22.7	28.4	34.1
Concentrate						
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
Pump and Motor						
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
Membrane Elements						
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
Piping Inch (cm)						
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)
Approximate Overall Dimensions Inch (cm)						
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)
Approximate Shipping Weight						
lbs (kg)	170 (77)	185 (83)	215 (98)	235 (107)	325 (147)	345 (156)

Minnicare® is a registered trademark of Minntech Corporation, a Cantel Medical Company
 Noryl® is a registered trademark of Sabic Innovative Plastics™



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