

Membrane Cleaning Systems

Series MC

Features:

- 5 micron cartridge filter with stainless steel or polypropylene housing
- Flow meter and pressure gauge
- Chemical solution tank
- Piping and valves
- Stainless pump
- Tank level switch
- Skid mounted system
- Factory tested for insured quality
- 1 year warranty



AF-MC-42

Membrane Cleaning

Reverse Osmosis membrane elements can experience a decline in performance due to the accumulation of deposits on the membrane surface. Mineral scale, colloidal particles, biological matter, and insoluble organic compounds are the usual causes of membrane fouling. When production of a Reverse Osmosis system drops by at least 10 percent, or the differential pressure increases by 15 percent (over normal operating conditions), membrane cleaning should be performed.

Acid and Caustic cleaning chemicals are most commonly used for membrane cleaning. Acid cleaners are designed to remove inorganic and iron deposits. Acid (low pH) cleaning should be performed at a pH of about 2. Caustic (high pH) cleaners are designed for removal of biological matter, organic foulants, and silica deposits. Caustic cleaning is performed at a pH of about 12.

System

The cleaning system is designed to be used with any RO system to clean membrane without removing membrane from the system. A chemical storage tank is mounted on its own stand and connected to the skid with either hard piping or quick disconnect fittings and flexible hoses. This gives the unit the ability to be mounted in a permanent location as a CIP (Clean In Place) or portable if desired.

Operating Specifications

- Electrical supply: 240V/50Hz
- Max. Operating Pressure: 125psi (8.62 bar)
- Ambient Temperature: 36-104°F (2-40°C)



AF-MC-44

Ordering information

Part number	Pressure vessel to be cleaned		Max Flow (Liter/minute)	Connection (inch)	Tank Capacity (Litre)	Dimension (inch)	Weight (kg)
	Size	Quantity					
AF-MC-41	4"	1	100	1"	200	48 x 35 x 60	135
AF-MC-42	4"	2	100	1"	400	50 x 35 x 60	200
AF-MC-43	4"	3	200	1"	600	65 x 40 x 75	250
AF-MC-44	4"	4	200	1.5"	800	65 x 40 x 75	275
AF-MC-81	8"	1	200	1.5"	800	65 x 40 x 75	275
AF-MC-82	8"	2	300	1.5"	800	65 x 40 x 75	275
AF-MC-83	8"	3	500	2"	1,200	85 x 55 x 90	300
AF-MC-84	8"	4	700	2"	1,500	85 x 55 x 100	325
AF-MC-85	8"	5	1,000	3"	2,000	85 x 55 x 100	350
AF-MC-86	8"	6	1,000	3"	2,500	85 x 55 x 100	375

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