

# Membrane Cleaning Systems

Capacity: 4" and 8" Membrane

CS

SERIES

The cleaning skid is designed for manual operation through a local control box located on the skid. A chemical storage tank is mounted on its own stand and connected to the skid with either hard PVC piping or quick disconnect fittings and flexible hoses. This gives the unit the ability to be mounted in a permanent location or portable if desired.



## Standard Features

- Skid mounted system, plumbed and wired
- 220V/1Ph/60Hz or 460V/3Ph/60Hz power
- 5 micron cartridge filter with stainless steel housing (CS8) or polypropylene (CS4)
- Local flow meter and pressure gauge
- Chemical solution tank with cover
- PVC piping and valves
- Stainless cleaning pump
- Tank level switch (CS8)

## Available Options

- 220V/1Ph/50Hz or 380-415V/3Ph/50Hz
- pH monitor
- Electric heater for chemical tank with temperature controller
- Flexible hoses for cleaning connection
- Wheel mounted skids for smaller units
- Chemical tank mixer
- Low and high pH cleaning chemicals



Computer Generated 3D Render of CS8-3

Pure Aqua supplies a full line of standard and fully customizable membrane cleaning systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.

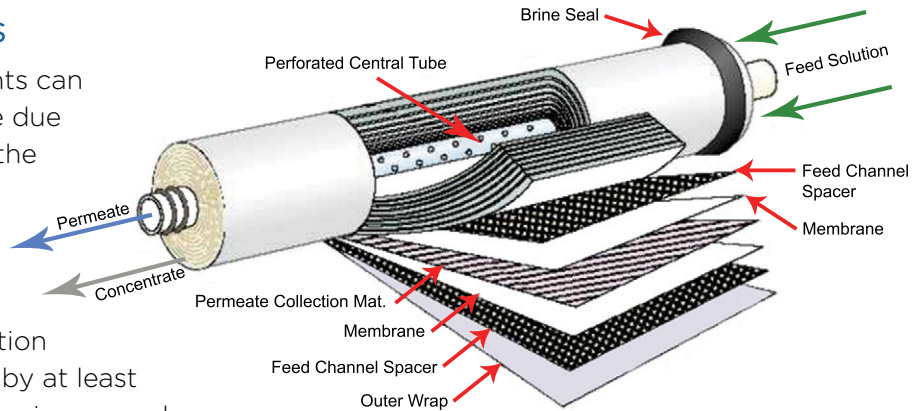
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## Membrane Cleaning Process

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.



## Membrane Cleaning Chemicals

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. Pure Aqua is a global supplier of NSF chemicals (Antiscalant & cleaning chemicals)

Model #	Qty of pressure vessels to be cleaned at a time	Piping Material	Pipe Size	Tank Capacity (Gal)	Shipping Weight (Lbs)
CS4-1	1 (4")	Schedule 80 PVC	1"	50	300
CS4-2	2 (4")	Schedule 80 PVC	1"	100	350
CS4-3	3 (4")	Schedule 80 PVC	1"	150	375
CS8-1	1 (8")	Schedule 80 PVC	1.5"	150	500
CS8-2	2 (8")	Schedule 80 PVC	1.5"	200	600
CS8-3	3 (8")	Schedule 80 PVC	2"	300	700
CS8-4	4 (8")	Schedule 80 PVC	2"	360	800
CS8-5	5 (8")	Schedule 80 PVC	2"	500	900
CS8-6	6 (8")	Schedule 80 PVC	3"	625	980

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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