

Membrane Storage, Shipping, and System Shut-Down

The interior of a spiral membrane element is dark, moist and therefore an excellent breeding ground for microorganisms. Up to 40% flux loss can occur from biological fouling in elements and modules that have been used, then stored on the shelf or in non-operating units for long periods.

To prevent biological growth, it is recommended that systems and membranes are disinfected and preserved during storage, shipping, or system shutdowns.

Applied Membranes, Inc. has formulated its own proprietary membrane care chemicals for preserving and disinfecting of membranes without flux or performance loss. These products are a result of over 30 years of hands-on experience of our engineers and chemists.



Membrane Preservative and Support Chemicals

Model Number	Description	Container Size
AM-88-25	Membrane Preservative for TF, CA, MF & UF Type Membranes	25 lb
AM-88-5		5 lb
AM-225	Glycerin Lubricant and Preservative	1 Gallon
PS-77*	RO System and Membrane Disinfectant	1 Quart

* Items marked with an asterisk are classified as DOT hazardous materials and cannot be shipped by UPS or by air. Can be shipped by ground common carrier or ocean shipment only.

Membrane Preserving Cartridges

Cartridges are loaded with a pre-measured amount of our proprietary membrane preservative AM-88 to preserve system and membranes in-place for extended periods of system shut-down.

Simply exchange the pre-filter cartridge in your system with a preservative cartridge and run the system to flush the chemical into the membranes and system lines to prepare the system for shutdown.



Model Number	Contains	For Filter Housing Size	# of 4x40 Membranes Preserved per Ctg.
C-C2510-A88	Membrane Preservative (AM-88)	10" Standard	1 to 2
C-C2520-A88	Membrane Preservative (AM-88)	20" Standard	2 to 4
C-C4210-A88	Membrane Preservative (AM-88)	10" Big Blue	2 to 4
C-C4220-A88	Membrane Preservative (AM-88)	20" Big Blue	4 to 8

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Membrane Storage:

Store Membranes in a cool area out of direct sunlight. Membrane storage temperature limits are 22°F-113°F. Dry (new) elements can go below 22°F.

Preserve in a solution of 2% AM-88 and 20% AM-225. This will not prevent freezing below 32°F, but the crystals are soft and the membrane is not damaged.

Keep new elements in their original packaging.

Examine the preservative in preserved elements every 3 months. If preservative color is not clear, remove and re-preserve the element. The pH of the preservative should not drop below 3.

Storage time of dry elements is unlimited.

Membrane Shipping:

Preserve the element in the plastic bag using the recommended procedure. Make sure the plastic bag does not leak and the element is properly identified.

Make sure the preservative solution is correctly labeled.

Protect the element package from physical damage.

System Shut-Down:

Clean the membranes in the system using the cleaning procedure.

Circulate the preservative solution.

Shut down the system and close valves to avoid air entering the system.

Check preservative once a month.