

PRESERVATION PROCEDURE

PRESERVING MEMBRANES AND SYSTEM WITH AM-88

The interior of a spiral membrane element is dark and moist, and therefore an excellent breeding ground for microorganisms. When spiral elements are used, tested, or operated intermittently, they will probably be exposed to bacteria. During shutdown or storage periods of more than a few days, spiral elements should be disinfected or sterilized by filling the system with a biocidal solution. Up to 40% flux loss can occur from biological fouling in elements and modules that have been tested on non-sterile water, then stored on the shelf or in non-operating units for long periods.

To prevent biological growth during storage, shipping, or system shutdowns, it is recommended that RO systems and membranes be immersed in a solution of AM-88. This solution will not adversely affect membrane flux or performance.

System & Membrane Storage Procedure:

1. Make a water solution containing 2% by weight of AM-88. Add 75 grams of AM-88 for each gallon of water (use RO permeate if possible).
2. Flush and fill the system with this solution.
3. Drain the system as much as possible.
4. Seal the system.

Long Term Storage Procedure (Membranes ONLY):

1. Make a water solution containing 2% by weight of AM-88 and 20% by weight glycerin (99%, USP).
2. Drain and seal the membrane in a plastic bag.