

ROMICON[®] and ROMIPRO[™] Hollow Fiber Cartridges Storage Instructions

STORAGE INSTRUCTIONS

A. SHELF LIFE

KSS Hollow Fiber cartridges leave the factory conditioned with a glycerin storage solution. From the date of shipment, the cartridge shelf life in the original packaging is two years. This assumes that the sealed bags have not been opened or damaged and the conditions shown in Sections B&C are met.

B. HANDLING

1. The boxes should not be dropped or crushed.
2. The cartridges should be stored horizontally.

C. NEW CARTRIDGE STORAGE CONDITIONS

1. Cartridges shall be kept unopened in original packaging.
2. Store cartridges indoors and out of direct sunlight.
3. Do not allow the modules to freeze and they should be kept at less than 40°C (104°F).
4. Storage temperature must be kept between 10°C and 30°C (50 to 86°F), at relative humidity below 70%.

D. USED CARTRIDGE STORAGE SOLUTION

1. **Short-term shut-down (up to 30 days):** The HF membrane cartridges should be thoroughly cleaned. The cartridges should then be filled with fresh water at 5-25°C (41 to 77°F). Exchange storage water with fresh water every one to two weeks.
2. **Long-term shut-down (30 days or longer):** The HF membrane cartridges should be thoroughly cleaned. The cartridges should then be filled with one of the following chemicals:
 - a. KOCHKLEEN[®] 180 (or equivalent) solution at pH 3-4
 - b. Phosphoric acid solution at pH 3
 - c. Sodium bisulfite solution at 2,000 mg/l, 5-25°C, and pH 3-4Replace storage solution every 30 days.

E. POST-STORAGE CLEANING PROCEDURE

The HF cartridge modules should be cleaned according to a KSS recommended procedure prior to restarting the system on production.

F. WATER QUALITY GUIDELINES

For water quality guidelines for storage solutions please refer to KSS Water Quality Guidelines for cleaning, diafiltration & storage.

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