



STORAGE INSTRUCTIONS

ROMICON[®] and ROMIPRO HOLLOW FIBER CARTRIDGES

A. SHELF LIFE

KMS Hollow Fiber membrane cartridges leave the factory conditioned with a glycerin storage solution. Subject to the limits shown in Sections B & C below, HF cartridges, kept sealed and in original packaging, will have a two year shelf life from ship date from KMS.

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 SOLUTIONS

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 3-4

Replace storage solution every 30 days.

E. POST-STORAGE CLEANING PROCEDURE

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

Koch Membrane Systems, Inc., www.kochmembrane.com

Corporate Headquarters: 850 Main Street, Wilmington, Massachusetts 01887-3388, US, Tel. Toll Free: 1-888-677-5624, Telephone: 1-978-694-7000, Fax: 1-978-657-5208
European Headquarters: Koch Chemical Technology Group Ltd., Units 3-6, Frank Foley Way, Stafford ST16 2ST, GB, Telephone: +44-178-527-2500, Fax: +44-178-522-3149

• Aachen DE • Lyon FR • Madrid ES • Milan IT • Wijnegem BE • Beijing & Shanghai CN • Mumbai & New Delhi IN • Melbourne & Sydney AU • Singapore • Sao Paulo BR • Dubai UAE

For related trademark and patent information, visit www.kochmembrane.com/legal

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