POREX® Tubular Membrane Filter (TMF) Modules

Handling, Preservation and Storage

**General** – Porex Tubular Membrane Filter (TMF) modules should be handled in such a way that biogrowth and change in module performance during long-term storage, shipping or system shutdowns are minimized.

**Storage and Shipping of Porex TMF Modules** - All new POREX TMF modules are shipped in a sealed cardboard box containing the serial number and part number of the module on the outside of the box. Please note and record the serial number of each module as the operating conditions of the modules will need to be documented for warranty purposes. The modules, as shipped from the factory contain pre-wetted membranes. Modules are preserved with 7% propylene glycol and water solution. The glycol prevents drying of the membrane during shipping and storage of modules. All modules have been released by the Quality Control department at Porex, preserved and sealed with caps on the inlet/outlet connections and held in place in the cardboard shipping container with a fixture on each end of the module.

Please follow these guidelines for storage of Porex modules:

- Leave in the original container. If the module is removed from the container, the module must be protected from UV light exposure and direct sunlight.
- Modules in their original containers, preserved with propylene glycol solution are not affected by freezing or storage temperature variations provided maximum temperature does not exceed temperature limits for the materials of construction of the module (see module specifications for the specific modules temperature limits).
- Keep new modules in their original packaging. The original packaging should be kept clean and dry.
- Modules should be visually inspected to ensure sealing caps are tightly fitted when placed into service.

**Shelf Life / Preservation** - For temporary shutdown, preservation may be required to properly protect the module from damage.

1. Perform normal cleaning operations on the system.
2. Flush the modules with clean water to remove sludge and particulates.
3. Drain water out of module.
4. Add propylene glycol solution to module by using cleaning tank or individually pouring solution into individual module (plug one end and filtrate ports).
5. Drain glycol and plug module. Preservation with glycol is effective indefinitely with end caps in place.
6. **STARTUP**. Follow instructions for installation/startup in the startup and installation of the module operating manual.