

TECHNICAL BULLETIN

TB 502: Professional Water Technologies Preservative Flushing Guidelines

To preserve membranes from biological growth during extended periods of standby, Professional Water Technologies, Inc. recommends the use of Preservol™ powder or liquid membrane preservative. For additional preservation methods, please contact us.

Prior to Flushing

Ensure that all valves are in the open position. Both the permeate and the concentrate valve(s) should be in the fully open position prior to flushing/at start-up (*see Technical Bulletin 501*). A low pressure start-up is recommended first in order to purge any air that may have been introduced to the system. To prevent damage to the membranes, air must be purged slowly. Additionally, a low pressure start up will help to prevent 'water hammer' which can also be physically damaging to the membranes.

Once all of the air has been purged from the system the feed pressure can be increased gradually. Please verify with the membrane manufacturer, but typically pressurization of the membrane elements should not exceed 10psi per second.

Flushing Guidelines***Potable Applications:***

Discard the product water for at least 2 hours prior to drinking or using in food applications.

Industrial Applications:

Discard the product water for at least 30 minutes prior to returning to service.

Prior to Preservation

PWT recommends that prior to preservation with Preservol, the membrane elements be cleaned with Lavasol or OptiClean line of cleaners. If the system is shutdown as the result of emergency conditions, at the least, the membranes should be flushed to within 10% conductivity of the highest quality flush water available.