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This technical bulletin outlines the information relating to the preservation solution used for Voltea's CapDI modules and the guidelines for its use, in addition to the storage advice for the Voltea control systems.

Preservation guidelines for Voltea CapDI systems and modules

For full system installation instructions please refer to the documents supplied with the system. For a module installation, please refer to Technical manual - module replacement 208M062. It is important to ensure that all PVC connections are tightened by hand to prevent damage and that the module electrical terminals are tightly fastened and covered. It is advised that the modules are drained before installation. A flush to purge air from the modules is always recommended before the system is restarted. If pre-pressure is sufficient (> 2bar) the system can be flushed without pump(s). The waste valve should always be open during this flush to prevent concentrate entering the purified stream.

CapDI module start-up

To preserve the CapDI modules from biological growth a preservation solution of demineralized water, sodium chloride and a biocide is used. For Preservation solution preparation details please contact Voltea. This solution is within the module during storage and transport. It is therefore advised to thoroughly flush the modules prior to use to remove any residual preservatives.

To meet performance targets it is necessary that the new modules are flushed for 30 minutes to remove the remaining preservation solution. We also recommend that, if strict regulations are in place, the user test the product water after flushing to ensure that any salt concentration is below local regulations. If the modules are to be used for low concentration water applications (<30 µS/cm) the recommended flush time is at least 8 hours.

Warning:

Any applications using the modules for potable water purposes should refer to the guideline specific to that application.

CapDI system shut-down

If the system is to be shut down for a prolonged period of time (7 or more days) the system should be drained flushed with preservation solution before being closed. Failure to do so may impact the performance of the total system. The system comes with both inlet and outlet valves, all of which should be closed to prevent air from entering the system. If demineralized water is not available, chlorinated municipal water can be used.

If system shut down is for a short period of time (<7 days) then the system should be closed (ensure system is flushed with fresh process water and inlet, pure and waste valves are closed) to prevent air entering the modules.

For more information, contact Voltea by telephone: +31(0)252200100, e-mail: info@voltea.com, or visit www.voltea.com.