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Technical Bulletin

Loop Conditioners and Sealants

June 11, 2012
TB12.002

Any brazed plate heat exchanger (BPHE) should never come in contact with salts and other dissolved particulate matter which can damage the plates of the heat exchanger. The particulate matter eventually reduces the life of a heat exchanger or accelerates the process of corrosion. Operational inefficiencies will be caused by particulate matter entering the BPHE. The load side of the new CT combination unit requires the use of a strainer due to the potential presence of particulate matter in the circuit. See the installation location of the strainer in the diagram below.

Y-type strainers are excellent for use in our systems since the amount of dissolved particulate matter or unwanted salts is often low and therefore bulky filters like basket type strainers can prove to be expensive and difficult to maintain. The Y-Strainer should always be installed horizontally with the pocket, which contains the filtering device, always pointing downwards. This allows some of the particulate matter, which is collected to drop below the main fluid stream.

It is not recommended to use any type of loop conditioner or sealant on the load side of any system. The load side does contain strainers which can become sealed. Conditioners and sealant can be used on the loop side of the system.

