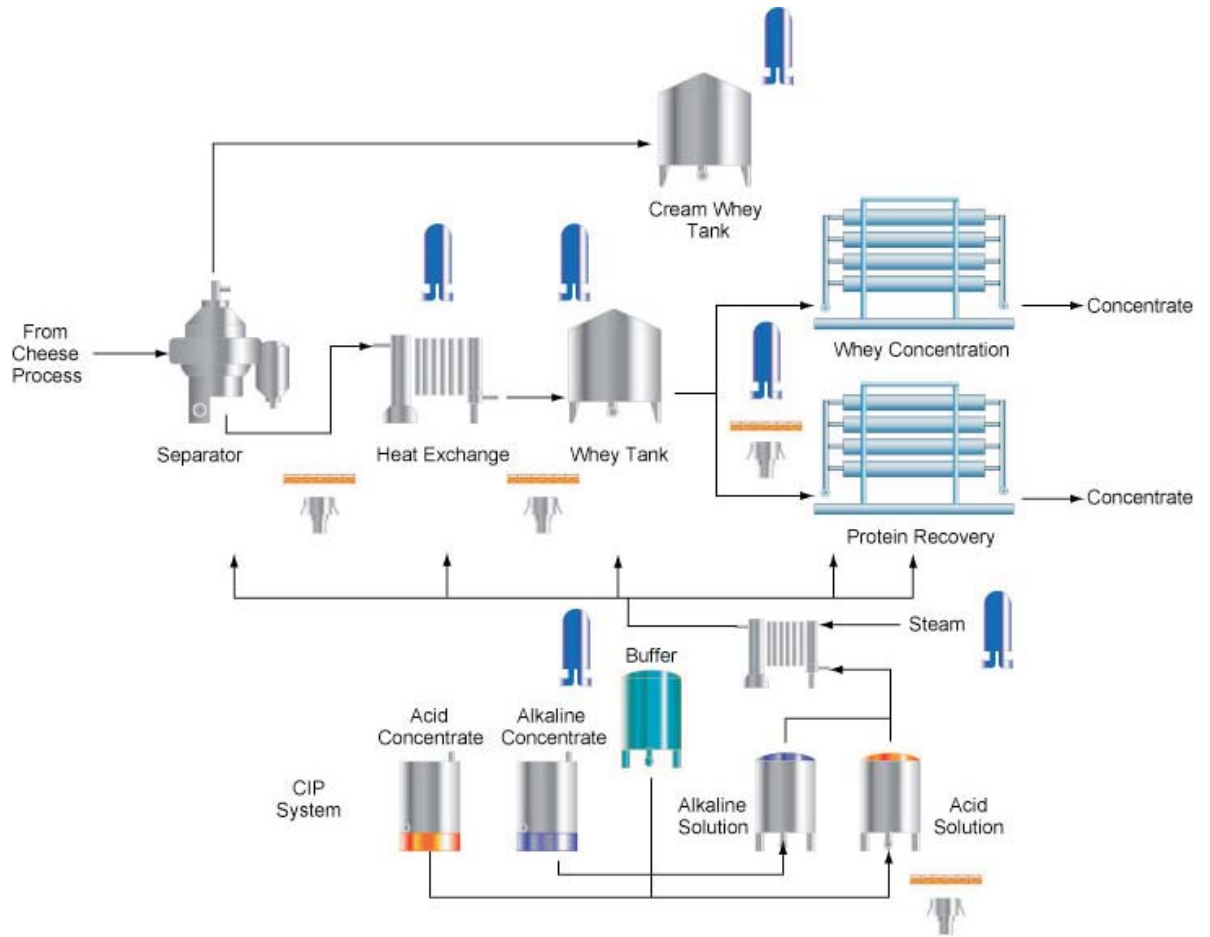


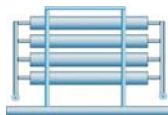
CLASSIC

FILTER & EQUIPMENT LTD

WHEY UTILIZATION



PRODUCT KEY



Membrane



Sterile filter



Flexible Hose



Fitting

APPLICATION

In this application, whey received from the Cheese Making process is processed into products with a higher value. Whey is first separated to de-cream it and then heated or cooled to help stabilize it. Pre-treated whey is concentrated through the use of membrane technology to produce concentrate that will be further processed to yield products such as Whey Powder, and Whey Protein.



All liquid storage tanks should be properly vented to maintain clean and sterile air. Classic recommends 0.2 μ PTFE membrane filters for this application.



Membrane separation technologies provide a cost effective method for concentrating whey and separating protein from the whey. Classic Filter and Equipment recommends Hydranautics RO and UF membranes specifically designed for dairy applications. These membranes provide high rejection, maximum solids yields, and reduce BOD of effluent.



Membrane installations can be prone to fouling and plugging which will lead to premature membrane replacement. Classic recommends a 5 μ pre-filter to remove any contaminants that might plug membranes.



All CIP agents should be purified to remove any contaminants that might compromise the maintenance of a sanitary system. Classic recommends a 1 μ pre-filter followed by a 0.45 μ micron membrane to keep this system within sanitary specifications.



Any steam utilized as heat exchange medium should be cleaned and purified to remove any liquid or particulate contaminants. This will prevent these contaminants from building up on exchange surfaces and will properly maintain the efficiency of heat exchange surfaces.



There are a myriad of applications for flexible hose and fittings within the Cheese Making application. Classic offers a complete line of hose and fitting products for the most demanding sanitary applications.

CLASSIC FILTER AND EQUIPMENT, LTD.

P.O. Box 16486, Fort Worth, TX 76162-0486

Phone: 817-886-0008 Fax: 817-230-4198

www.classicfilterandequipment.com