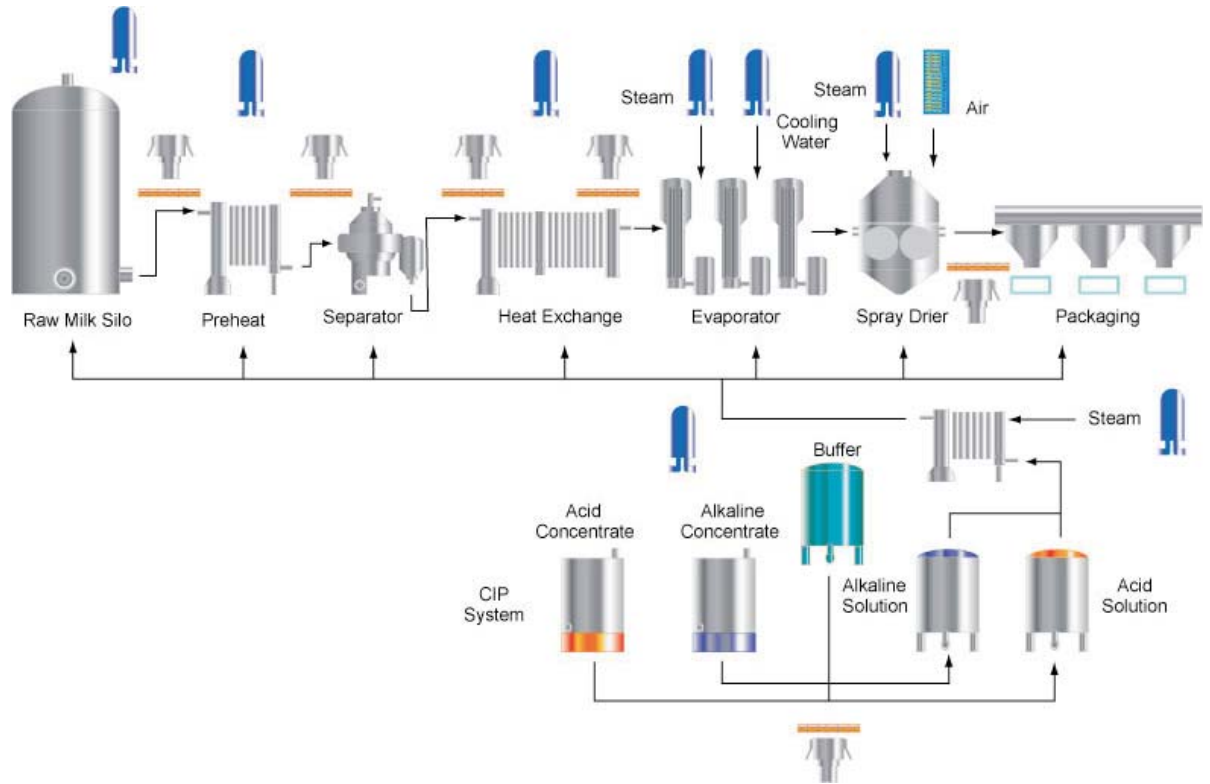


CLASSIC

FILTER & EQUIPMENT LTD

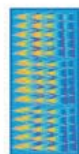
MILK POWDER PRODUCTION



PRODUCT KEY



Sterile Filter



Hepa Sterile Air Filter



Flexible Hose



Fitting

APPLICATION

Raw milk from the storage silo is treated to obtain the proper quality for the feed into the drying phase of the operation. This process includes separation and possibly homogenization prior to the concentration and drying process. The treated milk is sent to the Evaporator and then the Drier to concentrate the product into its' final powder form. From there it is packaged.



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.



Spray Drying requires large amounts of sterile steam and air. To accommodate the higher temperatures in this application Classic offers Porous metal products that will provide clean steam for this application.



For Sterile air, Classic recommends either HEPA style filters with 99.99% efficiency or Cartridge style membrane filters that will remove any particulate or aerosol contaminants down to 0.2 μ .



Evaporators require steam and water to heat milk product and cool equipment generated heat. Classic provides both metal and polymeric non-woven filters for these applications. Metal filters will withstand the high steam temperatures to provide high-quality steam to the system. These filters will assure that contaminants that can plug or plate heat exchange surfaces are removed, therefore maintaining the efficiency of the process.



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 Milk Powder application. Classic offers a complete line of hose and fitting products for the most demanding sanitary applications.

CLASSIC FILTER AND EQUIPMENT, LTD.

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