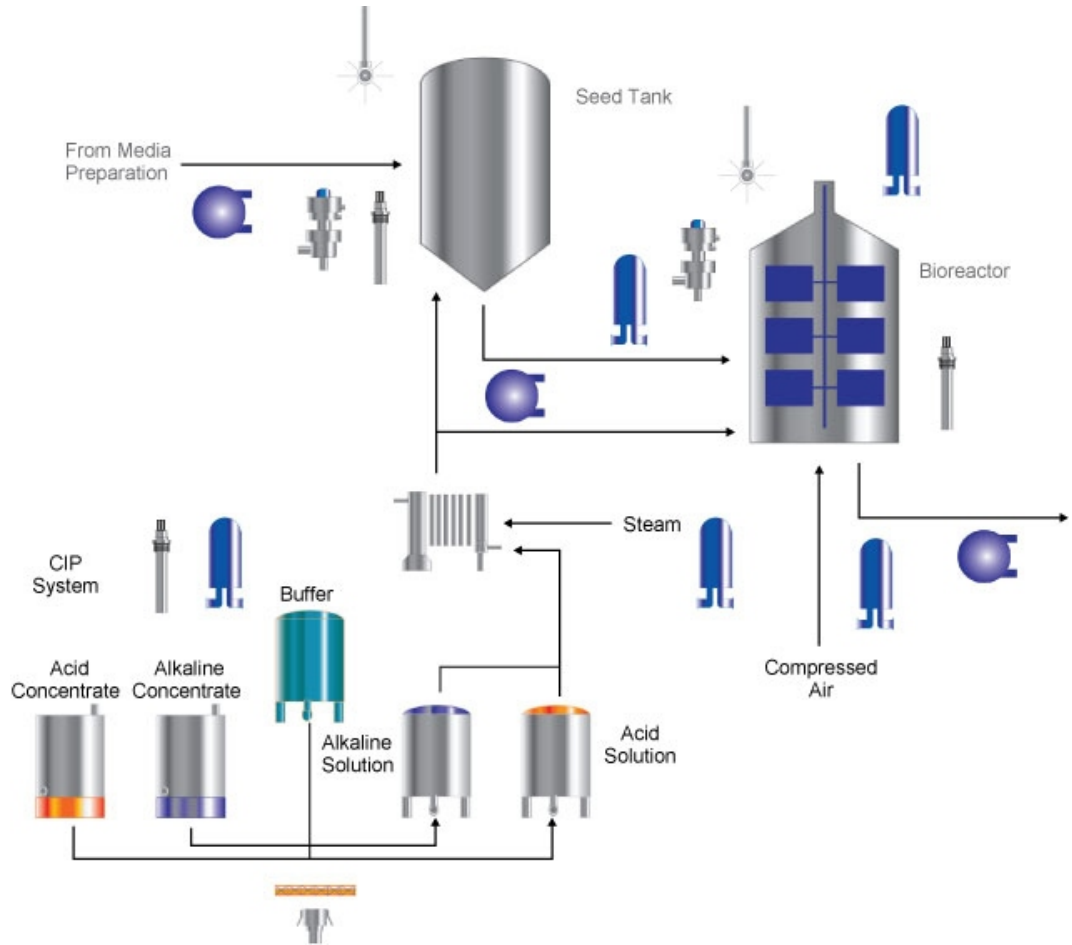


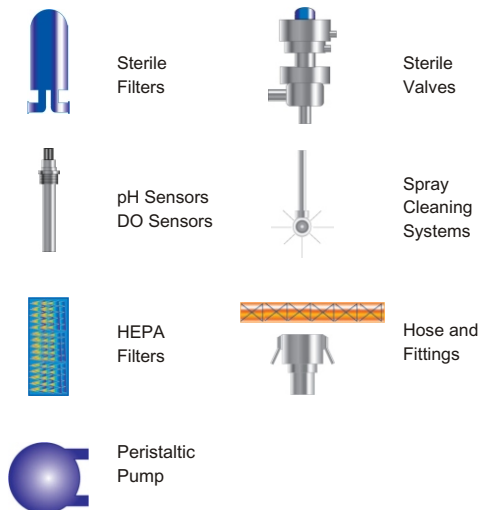
CLASSIC

FILTER & EQUIPMENT LTD

BIOREACTOR



PRODUCT KEY



APPLICATION

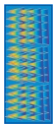
Once the raw ingredients reach the proper blend state, the emulsion is transferred to the Seed Tank. From the Seed Tank the mixture moves to the Bioreactor where it is processed through the use of agitation, heat control and other measures to produce the raw product.



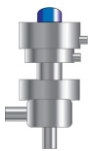
Filters are used in the Bio Reaction process to purify liquids and gases. You will Find them in Media prep, Tank Ventilation, Compressed Air and CIP systems. Classic Filter and Equipment can provide all of your filtration needs.



Sensors are used in Seed Tank and Bioreactor to monitor and adjust pH and Dissolved Oxygen Concentration Classic Filter carries Hamilton Process Sensor Products for these applications. Hamilton Sensors offer direct connection to PLC without the need for intermediate transmitters.



HEPA filters are used in labs, fill suites, and manufacturing areas to remove airborne contaminants. Classic Filter and Equipment offers Flanders Corporation HEPA style filters for all of these applications.



Tuchenhagen Vesta Sterile Valves are used throughout the Reactor Phase to regulate the movement of fluids through the process piping and tanks. Vesta valves offer many advantages compared to diaphragm style valves including longer on-stream life and ease-of-maintenance.



Spray cleaning systems are used in process tanks for CIP. Tuchenhagen offers a wide range of spray devices to fit most tank cleaning applications. Let Classic Filter and Equipment review your application to recommend the best spray cleaning solution for your process.



Hose and tubing are used throughout the manufacturing process. Common uses are for CIP and product transfer. Classic Filter and Equipment offers the highest quality hose and tubing products for these applications. We, also, offer many great hose identification and tracking solutions to help in the audit process.



Peristaltic pumps are used to move liquid raw ingredients and finished product from one stage to the next in the manufacturing process. Peristaltic pumps are ideal for this application because they are gentle on the product, do not contact the product, and exhibit versatility in pumping speeds. Classic Filter and Equipment offers Watson-Marlow Peristaltic pumps.

CLASSIC FILTER AND EQUIPMENT, LTD.

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