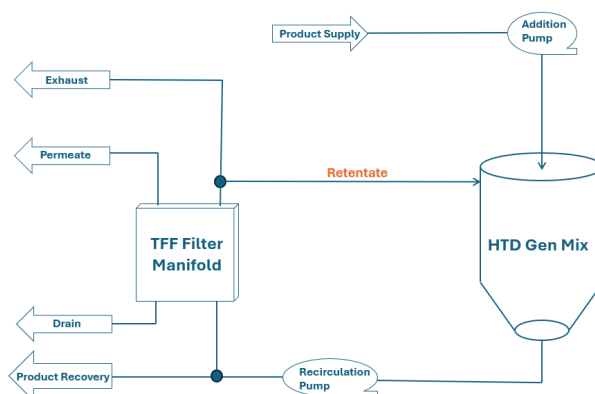


CSR Large-Scale, Single-Use Tangential Flow Filtration (TFF) Systems

Introduction

ABEC's CSR Single-Use TFF platform delivers high productivity, ultrafiltration/diafiltration (UF/DF) and is customizable for cassette or hollow fiber formats. These systems are designed for the latest next-generation flexible manufacturing facilities as an alternative to stainless steel systems or smaller scale off-the-shelf single-use TFF products. High throughput and maximum product concentration for UF/DF processes are now available in a single-use format.



Unique Features

- Industry's largest available filter area of up to 40 m² for cassettes
- Flow rates greater than 260 liter per minute
- Fully single-use flow paths for rapid batch-to-batch and campaign-to-campaign changeovers
- Conical mixing vessel for high turndown ratios
- Low operating and hold-up volumes for maximum product concentrations
- Customizable for specific applications and filter types
- Non-proprietary control systems and components





CSR GenMix HTD

- High turn-down ratio for single-use mixing, enabling high UF product concentration
- Novel CSR Single-Use GenMix design
 - Bottom center-mounted agitator
 - Low-profile mechanically-coupled impeller
 - Disposable Container (DC) Holder with baffles
- Temperature control available via dimpled jacket
- Accurate level sensing via load cells

Typical Specifications

- Filter areas up to 40m²
- Recirculation flow rates up to 260 liters per minute
- Mixer turn-down ratio is 20:1
- Filter brands: Millipore Pellicon® and Repligen TangenX® SIUS®
- Single-use pumps: Levtronix® (centrifugal), Quattroflow™ (positive displacement), and Watson-Marlow (peristaltic)
- Disposable tubing: Thermoplastic, braided, and high-pressure PVDF (high pressure)
- Open architecture automation: Emerson DeltaV™, Rockwell, or Siemens

