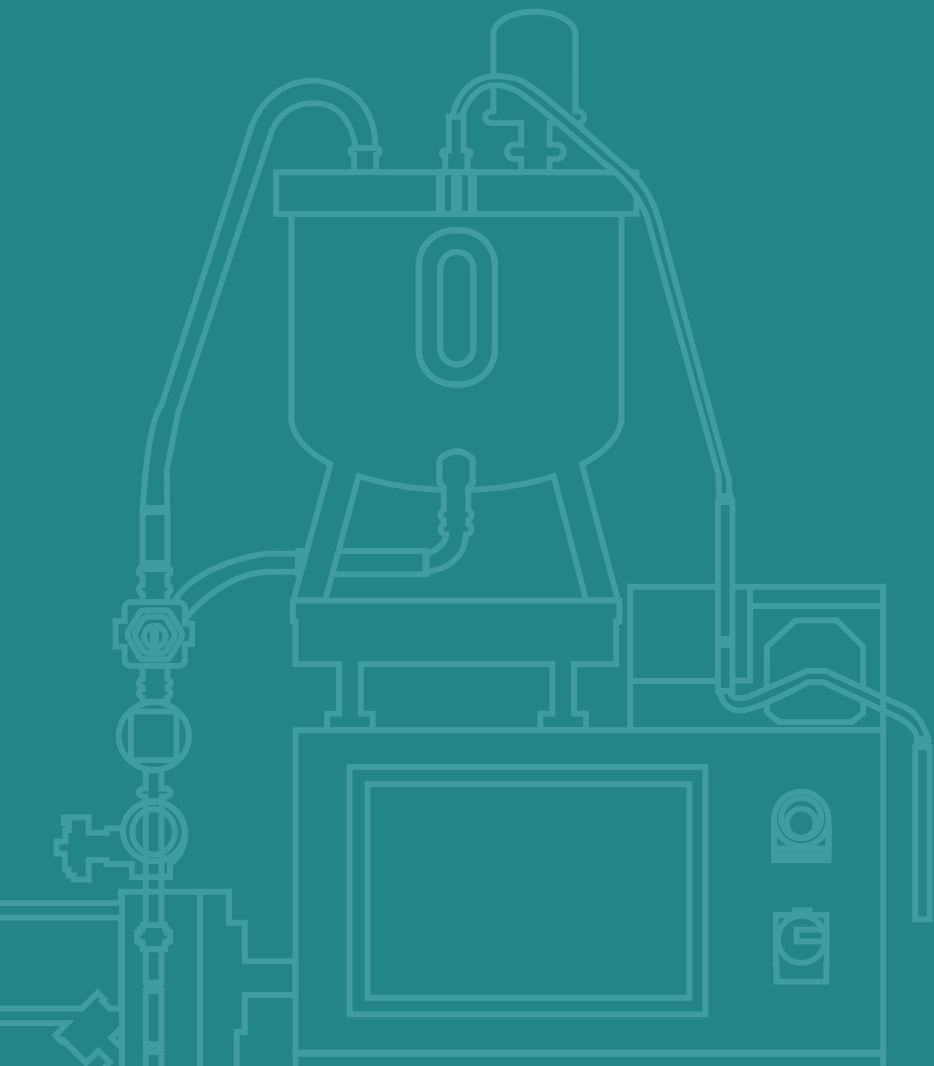




# FiltraLinX®

## Benchtop TFF System



## FiltrLinX® Benchtop TFF System

FiltrLinX® benchtop TFF system adopts a modular design, equipped with membrane filter holders of different specifications, to meet filtration area requirements of 0.1-0.5 m<sup>2</sup> or 0.5-2.5 m<sup>2</sup>. According to the process requirements, the circulating pump can be flexibly configured with a rotor pump or a diaphragm pump.

The system is designed to be compact and practical, with an automatic control system for flow rate and pressure to achieve automatic control of TMP and Delta P, thereby realizing automated operations such as concentration, diafiltration, desalting and dealcoholization of bioproducts such as antibodies, vaccines, blood products, and gene therapy drugs.

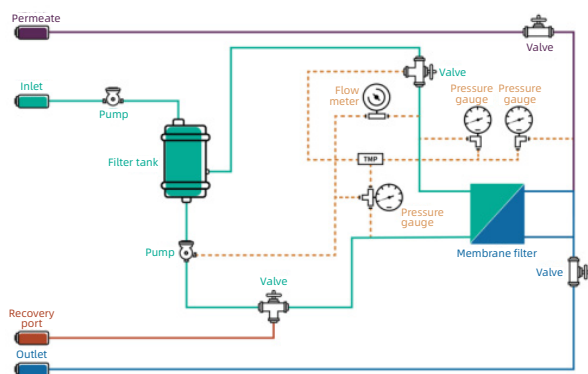
Featuring automated operation, cost-effectiveness, and compliance with regulations related to data integrity, the system is an ideal choice for laboratory research, pilot-scale production, clinical drug production, and GMP production stages.

### Applications:

- Vaccines
- Gene therapy
- Cell therapy
- Nanomedicines
- Monoclonal antibodies
- Recombinant proteins
- Blood products

### Product Features:

- Various specifications available: 0.1-0.5 m<sup>2</sup> and 0.5-2.5 m<sup>2</sup> benchtop ultrafiltration membrane filtration
- Capable of using hollow fiber filters
- Equipped with PLC, weighing unit, manual valve, circulating pump, flow meter, pressure sensor and other components to control TMP and Delta P, enabling automated production operations
- Equipped with 316L stainless steel filtration tank for sample loading and collection
- Equipped with flexible process sample interfaces, compatible with single-use storage and mixing bags for product loading and collection
- Equipped with peristaltic pump for feeding to achieve equal-volume diafiltration
- Reserved interface for membrane integrity testing
- Mature automatic control software that complies with data integrity requirements of GMP production
- Can be equipped with online pH, online conductivity detection, and other instruments
- Support CIP, SIP and IT membrane integrity testing and NWP water flux detection functions



## System Configuration and Specification Parameters:

Membrane area	Membrane filters: 0.1-0.5 m <sup>2</sup>	Membrane filters: 0.5-2.5 m <sup>2</sup>
In-process tank	5 L	10 L
Equipment dimensions and weight	950 × 560 × 1450 mm and 130 kg	1250 × 560 × 1450 mm and 180 kg
Automatic control level	Automatic control	
Operating pressure	Max. 5 bar	
System pressure resistance	Max. 6 bar	
Pipeline fittings	SS 316L; Ra ≤ 0.4 μm	
Sanitary connection	TC chuck	
Manual valve	PP, SS 316L	
Flow detection	Permeate end, electromagnetic flow meter; retentate end; electromagnetic flow meter	
Operation mode	Automatic feedback control	
Operating temperature	4 - 40 °C @ PP; 4-60 °C @ SS 316L	
Min. circulation volume	0.1-0.5 m <sup>2</sup> benchtop model: minimum circulation volume ~ 200 mL. 0.5-2.5 m <sup>2</sup> benchtop model: minimum circulation volume ~ 400 mL.	
Language	Chinese, English	
Material (liquid contact part)	Common and classic materials in the pharmaceutical industry such as 316 L, Polymer (USP class VI or FDA), EPDM, Santoprene elastomer, medical, Grade epoxy, silicone.	

\* Customization available upon request. For details, please consult the local sales or call the hotline 4000589000.

## Mature automatic control software that complies with data integrity requirements of GMP production:

- Comply with FDA 21CFR Part 11 requirements for electronic records and electronic signatures
- Comply with audit trail requirements
- Bilingual operating interface: Chinese, English
- Hierarchical alarm management
- Three-level permissions management
- Data backup and restore
- Clock synchronization
- Display process parameter trend chart, and generate reports in PDF
- SCADA system interface to realize the data integration of MES system

## Ordering Information:

### Benchtop TFF system 0.1-0.5 m<sup>2</sup>

Product	In-process tank	Retentate section	Permeate section	Holder
TF0D5 = 0.5 m <sup>2</sup> default system configuration Inlet section: Pressure, temperature, diaphragm pump Retentate section: Pressure, flow Permeate section: Pressure Feed section: Peristaltic pump	T1 = Stainless steel non-jacketed T2 = Stainless steel jacketed T3 = Stainless steel non-jacketed + MX T4 = Stainless steel jacketed + MX T5 = SU storage bag hanger	R0 = N/A R1 = pH R2 = CT R3 = pH+CT	P0 = N/A P1 = Electromagnetic flow meter P2 = Mass flow meter P3 = pH+CT P4 = Electromagnetic + pH + CT P5 = Mass + pH + CT P6 = Electromagnetic + pH + CT + UV P7 = Mass + pH + CT + UV	H0 = Without holder H1 = With holder

### Benchtop TFF system 0.5-2.5m<sup>2</sup>

Product	In-process tank	Retentate section	Permeate section	Holder
TF2D5 = 2.5 m <sup>2</sup> default system configuration Inlet section: Pressure, temperature, diaphragm pump Retentate section: Pressure, flow Permeate section: Pressure Feed section: Peristaltic pump	T1 = Stainless steel non-jacketed T2 = Stainless steel jacketed T3 = Stainless steel non-jacketed + MX T4 = Stainless steel jacketed + MX T5 = SU storage bag hanger	R0 = N/A R1 = pH R2 = CT R3 = pH+CT	P0 = N/A P1 = Electromagnetic flow meter P2 = Mass flow meter P3 = pH+CT P4 = Electromagnetic + pH + CT P5 = Mass + pH + CT P6 = Electromagnetic + pH + CT + UV P7 = Mass + pH + CT + UV	H0 = Without holder H1 = With holder

\* In case of any trouble, please contact the local sales representative and technician for consultation.

## About BioLink

BioLink is a group of technology-driven businesses that provide process solutions in the life sciences industry. The company focuses on the development and production of the key processing equipment and consumables used in the manufacturing process of recombinant protein drugs, vaccines, antibodies, cell therapies, gene therapies, and other biological products. BioLink's portfolio of offerings covers the entire upstream and downstream bioprocess such as cell culture, single-use mixing and storage, chromatography, filtration (ultrafiltration/diafiltration, clarification, and virus removal), and hydration products, as well as process development services. BioLink is committed to providing customers with high-quality, innovative products and solutions and strives to build an efficient, safe and competitive biopharmaceutical supply chain eco-system.

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