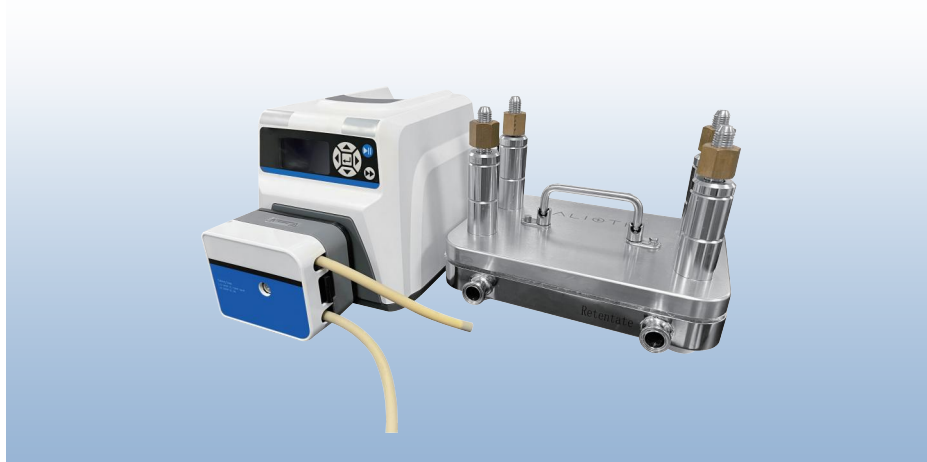


Alioth Manual Ultrafiltration System

Easy Operation

Safe and Convenient

316L Stainless Steel



⊕ Product Introduction

Alioth manual ultrafiltration system, with its modular design and flexible combination options, supports the use of filters or hollow fibers of different areas, thus realizing various filtration requirements ranging from a minimum of 0.1 m² to a maximum of 20 m², or even a larger area. It is operated manually, providing convenient control. Both desktop- and ground-based versions are available to meet different site needs. The overall system design is compact and space-saving. By displaying pressure and manually adjusting flow rate, the system can control TMP and Delta P effectively. It has flexible design, versatile functions, and diverse applications, thus suitable for various stages and needs in pharmaceutical industry, such as laboratory-scale process development, pilot-scale drug production, and GMP-level drug production. Customers can configure different functional modules, such as flow rate, temperature, pH, conductivity, and UV, according to their own process requirements. It has a sanitary design and provides complete IQ / OQ verification service and document support. It can be applied in various pharmaceutical production processes, including but not limited to concentration/diafiltration, microfiltration, and unidirectional tangential flow filtration.

⊕ Key Features and Benefits

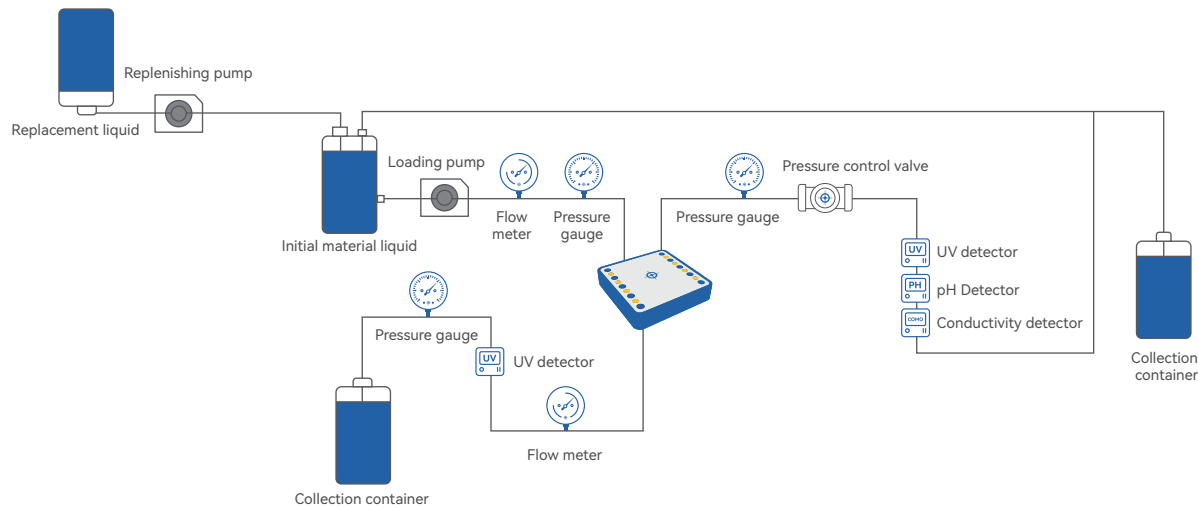
- Compatible with different types of consumables, and flat filters or hollow fibers of different areas
- Compatible with mainstream brands of filters and hollow fibers in the market
- Sanitary design, with main liquid-contacting materials being 316L stainless steel and FDA-compliant non-metal materials such as EPDM/PTFE/TPE commonly used in pharmaceutical industry
- Resistant to acid and alkali corrosion, liquid-contacting surfaces can be selected with Ra<0.4 μm EP or Ra<0.6 μm MP as needed
- The holder adopts standard TC connector, allowing free adaptation to the system
- Compact and rational system design, resulting in a small footprint
- Simple system configuration and convenient operation
- Can adapt to a filtration area of approximately 0.1–20 m²
- Pump overpressure protection, mechanical interlocking, safe and reliable operation
- Reliable quality, traceable process, accessible liquid-contacting material certificate and cleanliness certificate
- High-quality service, and accessible FAT/SAT/IQ/OQ service packages that can be purchased according to needs

⊕ Product Applications

- Vaccine purification
- Virus purification
- Blood product purification
- Monoclonal antibody purification
- Recombinant protein purification
- Endotoxin removal

Alioth Manual Ultrafiltration System

PID Flowchart



Product Specifications

Membrane Area	Common filter series: 0.1-0.5 m ²	Common filter series: 0.5-2.5 m ²	Common filter series: 5-10 m ²	Common filter series: 10-20 m ²
Pump	Optional diaphragm pump or peristaltic pump			
Operation Mode	Manual control of TMP, manual control of valves, manual recording of data			
Power Supply	220V/50Hz (P+N+PE) or 380 V/50 Hz (3P+N+PE)			
System Pressure Resistance	Maximum 6 bar			
Operating Temperature	SS 316L; Polymer; EPDM; Silicone; TPE			
Pipeline Material	4-40°C recommended for plastic material part; 4-60°C recommended for SS 316L part			
Sanitary Connection Method	Sanitary chuck			
Liquid-contacting Surface Finish	Optional: Ra<0.4 µm EP or Ra<0.6 µm MP			

Ordering Information

Format	Diameter	Filter holder	Polishing	Services
TFH0M5=Manual Ultrafiltration System 0.1-0.5 m ² TFH2M5=Manual Ultrafiltration System 0.5-2.5 m ² TFH5M0=Manual Ultrafiltration System 2.5-5 m ² TFH10M=Manual Ultrafiltration System 5-10 m ² TFH20M=Manual Ultrafiltration System 10-20 m ²	P0=Diaphragm pump P1=Peristaltic pump	H0=No holder H1=With holder	EP=Ra<0.4 µm EP MP=Ra<0.6 µm MP	S0=No requirement S1=FAT S2=SAT/IOQ S3=FAT+SAT/IOQ