



Tangential Flow Filtration (TFF) systems with hollow fiber modules facilitate the direct scalability of ultrafiltration and microfiltration applications (desalting, concentration, filtration, clarifications) for R&D to productions with volumes ranging from a few milliliters to thousands of liters.

MicroKros Hollow Fibers

Hollow Fiber Modules for Small Volume Filtration and Characterization

Designed for gentle cross flow filtration of small volumes ranging from 2 - 50 ml, disposable MicroKros Hollow Fiber Modules are the first efficient and practical tangential flow filtration device for R&D volumes in the laboratory setting. While MicroKros modules are typically operated by a peristaltic pump, these devices also offer the unique advantage of manual operation for quick and convenient separations for small volumes. Concentration utilizes two retentate syringes connected to the luer inlet/outlet ports to pass the sample back and forth through the membrane lumen while a third syringe collects the filtrate by way of one of the side-ports. In diafiltration, a fourth syringe can be used to either supply more sample for concentration or buffer for diafiltration via the luer T connector.

QUICK & EFFICIENT FILTRATION

- 5 - 30 minutes Separations
- 2 modes: Pump Operation & Manual Operation
- Gentle process for increased viability
- 90 - 99% Product Purity
- 85 - 95% Product Recovery

Advantages of Disposability

- Easier FDA Validation
- Saves Money & Time
- No Cross-Contamination
- Less Down-Time
- Low Shear
- Directly Scalable for Production
- Easy Retrofit for other HF Modules

Dimensions:

SA (cm ²)	Scale Length	ID (mm)	TL (cm)	L (cm)	EL (cm)
5-8	1/3xFL	3,5	10,2	10,2	8,0
8-11	2/3xFL	3,5	14,2	14,2	12,2
13-20	1xFL	3,5	23,2	23,2	21,2



Specifications:

<u>Housing:</u>	Polysulfone				
<u>Inlet/Outlet Ports:</u>	Male Luer-Lok (MLL)				
<u>Permeate Ports:</u>	Female Luer-Lok (FLL)				
<u>Potting:</u>	Epoxy				
<u>Process Volume:</u>	2 mL - 60 mL				
<u>Surface Area:</u>	5 - 20 cm ²				
<u>Packaging:</u>	Dry, pre-wetted or irradiated				
<u>3 Membranes</u>	Fiber ID	MWCO			
Mixed Cellulose Ester (ME)	0,6 mm	0,1 µm	0,2 µm		
Polyethersulfone (PES)	0,5 mm	0,2 µm	0,5 µm		
Polysulfone (PS)	1,0 mm	100 kD			
	0,5 mm	0,05 µm, 20 nm (500 kD), 100 kD, 50 kD, 10 kD			
<u>Process System:</u>	Manual Research II System				

Applications:

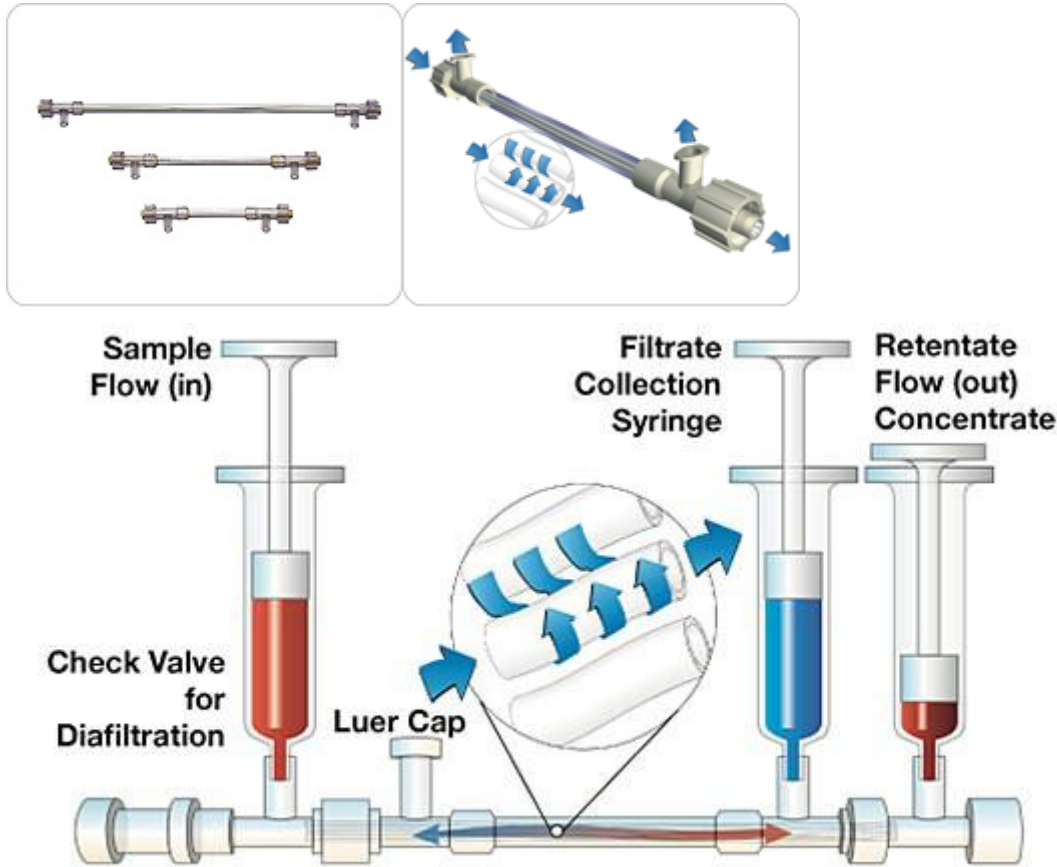
- Cell Washing
- Lysate Clarification
- Bacterial Concentration
- Micro-particle Diafiltration
- Macromolecular Isolation
- Virus Purifications
- Viral Clarification
- Protein Purification
- Antibody Production
- Desalting & Buffer Exchange
- NanoParticle Diafiltration

[List of MicroKros Modules cat.numbers](#)

MicroKros Hand Operation

While MicroKros modules can be operated using a small capacity peristaltic pump, these devices also offer the unique advantage of hand operation for quick and convenient separations of very small volumes. Hand operation utilizes two retentate syringes connected to the luer inlet/outlet ports (by way of Luer T's) to pass the sample back and forth through the membrane lumen. A third syringe is connected to one of the female luer side ports to receive the filtrate as the retentate volume diminishes.

A fourth syringe, connected to one of the inlet Luer T's can be used to either supply more sample for concentration or buffer for diafiltration.



See also:

[PH-Process Filtration Systems](#)

[PH-List of KrosFlo Modules](#)

[FT-KrosFlo Hollow Fiber Module Instruction guide](#)

[Products HighLights Overview](#)

Information inquire

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