

KrosFlo Hollow Fibers Ultra/Filtration Systems

KrosFlo filtration is the only technology for research to process that prices hollow fiber membrane elements so low that disposability is no just an option.... It's preferable!: Risks of cross contamination arising due to the re-use membranes in a multi-product facility are eliminated.

Tangential Flow Filtration (TFF) with hollow fibers facilitates 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.

Implementation of single-use KrossFlow modules also means that you are always operating your membrane at its maximal performance level, helping you to maximize your product yields.

 $\frac{KrosFlo\ hollow\ fibers}{krosFlo\ units}\ are\ run\ by\ lab\ peristaltic\ pumps\ for\ smallest\ units, and\ for\ largest\ \underline{KrosFlo\ units}\ by\ research\ up\ to\ process\ systems.$

Filtration hollow Fiber modules:

- * KrosFlo hollow fibers are available in 3 different membrane materials:
 - Mixed Ester Polyethersulfone Polysulfone
- 2 different lumen diameters: for ultra filtration and micro filtration applications. A broad range of module lengths and sizes enable a unique linear scalability. Whether you work in R&D or production, we have a module that meets your requirements, from a few cm² to 13m². This flexibility in scale-up means that you can be sure there will always be a scaleable pathway to production without changing any membrane materials, retention or potting materials.



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

Applications:

- Continuous Cell Perfusion
- Cell Washing and/or Harvesting
- Clarification of Cellular Debris
- Bacterial Fermentation Harvesting
- Monoclonal Antibody Production
- Processing Diagnostic Micro-Particles
- Virus clarification

Production facility is run under GMP/ISO 9001 in an FDA registered class 10 000 clean room, all hollow fiber modules are:

- Non pyrogenic by LAL
- Low bioburden
- (integrity testing include pressure decay as the primary method)



More information and overview on Hollow Fiber Filtration/Ultrafiltration Modules

Filtration operating systems:

Research to pilot scale: see below

KrosFlo® Research Systems for volumes of 2 mL to 10 L

Pilot to Process scale: see below

MiniKros, MiniKros Plus, KrosFlo Pilot and KrosFlo Pharma Systems for volumes of 300mL to >50 000L

KRII

Research Filtration systems:

KrosFlo Research IIi System:

a flexible system for volumes of 2 mL to 10 L
It operates following filters:
MicroKros Hollow Fiber Modules
Hollow Fiber TFF for UF or MF of 2 - 60 ml volumes
MidiKros Hollow Fiber Modules for volumes of 20 - 500 ml
MiniKros Sampler Hollow Fiber Modules for volumes of 50ml - 3L
MiniKros Sampler Plus Hollow Fiber Modules for 50 ml-3L vol.
Video about KrosFlow filter modules

Applications:

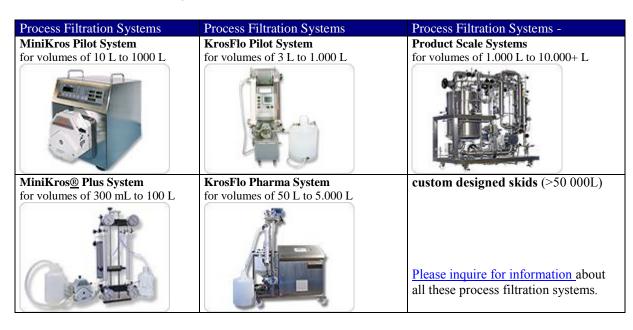
E.coliLysateCell Debris Removal
Recombinanet Chinesse hamster Ovary Cell Separation

KrosFlo® Research I System for volumes of 2 mL to 2 L **More information**



KR1 Pump and KR Junior pump Presentation of KR1&Jr

Process Filtration systems:



Replacement parts for KR2i and KMPi are also available to order.

Other products and services for manufacturing are provided by Interbiotec Interchim:

- -Custom services (antibody production, peptide sysnthesis, purifications, combinatorial chemistry,
- -Raw materials in bulk quantities or special packaging (biochemicals, buffers,... / pre-weighed, microplate format,...)
- -Containers qualified for process purifications (sterile, ...): <u>Biotainer containers</u> (1L-20L) and <u>JM bags</u> (50ml-50L)

Retourner par Fax : 33 (0) 4	70 03 82 60 ou email à <u>inter</u>	biotech@interchim.com	
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