

Consieve UET & UFCTFF Cassettes and Systems



Tangential Flow Filtration Technology

Tangential flow filtration is a membrane technology used for concentration, dialysis, separation by tangential flow, usually retaining the molecular weight of the Range: 1-1000KD.

Unlike conventional vertical filtration, in tangential flow filtration, the fluid flows tangentially across the membrane surface and the transmembrane pressure difference created by the fluid presses a portion of the solution against the filter membrane, while the retained portion circulates back through the

system. During the whole process, the liquid flows continuously through the membrane surface at a certain speed, while ultrafiltration also flushes the membrane surface, so that the membrane surface is not easy to form a gel layer, so that the particles in the liquid will not quickly block the membrane, maintaining a stable filtration speed.

Applications

Blood products

Vaccines

Recombinant protein

Monoclonal

Plasmids

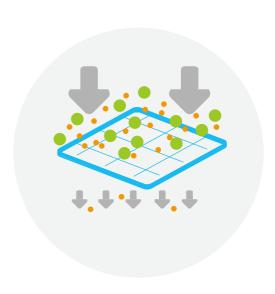
Chemical

Traditional Chinese medicine injection

Tangential flow filtration



Dead-End Filtration



Typical Applications

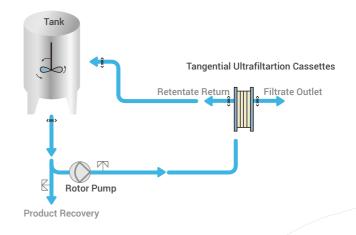
- Concentration: biological macromolecules (recombinant proteins, monocytes, viruses, etc.)
- Dialysis, desalination, buffer replacement
- Separation, purification
- Endotoxin removal
- Removal of large molecules, etc

Tangential Flow Simple Device

The tangential flow simple device is easy to operate, flexible configuration, small footprint, sanitary design.

Can be used for small trial, pilot, small scale production, fully linear scaling.

Pump	Peristaltic Pump						
Holder	Sanitary Cassette Holder						
Membrane	Lab 100cm ² 200cm ² 0.11m ² Flow 0.46m ² 0.5m ² 2.33m ² 2.5m ²						
Pipe	Hygienic silicone tubes, autoclavable						
Pressure Gauge	Sanitary diaphragm pressure gauge						
Connections	Sanitary clamp connection						





0.1 m² Stainless Steel Holder

Process development and small-volume parentals production with an EFA of 100cm²/200cm²/0.1m². Unique design is fully compliant with biopharmaceutical applications and their requirements.

0.5 m² Stainless Steel Holder

Accomodate an effective filter area of 0.46 - 2.5 m² up to 5 m²

Customized Ultrafiltration System for Lab Pilot & Process Scale Application

- Mass flowmeter, electromagnetic flowmeter, pH meter, conductivity meter and other testing equipment can be selected according to needs
- Automatic CIP/SIP, automatic detection of water flux, automatic concentration, constant-volume dialysis, automatic recycling, etc.
 can be achieved by editing methods
- Automatic adjustment/control of inlet or circulating flow rate and recording of flow rate change curve.
- Automatically monitor the inlet, retentate, and permeate pressure, calculate TMP automatically, realize TMP control, and record TMP curve.
- The retentate can be equipped with a precision TMP control valve for automatic and precise TMP control.
 Multi-level permission management with audit trail.







URS Completed

Drawings, Quotations, Solutions



Customer Confirmation

Contracting and Producting Systems





 Training services for the optimization of the use and maintenance of ultrafiltration processes
 Follow-up system services

Consieve UET & UFC TFF Cassettes

Consieve UET&UFC Cassette membranes have a high retention efficiency and are easy to clean/install. Available in a wide range of configurations.

Due to its design, it is easy to amplify/increase based on specific process requirements. The inner gaskets make installation/cleaning/storage/replacement quick and easy. Low working volume and high efficiency ensure product yields.

Information

Materials	PES, RC				
Material Features	Low protein binding and high product yield superior flow rates				
PH Range	Broad chemical compatibility: PES pH 1-14, RC pH 2-13				
NMWL	1/3/5/8/10/30/50/100/300/500/1000KD(PES)				
	1/2/3/5/8/10/30/100/300KD, 3KH/3KL(RC)				
Operating Temperature Range	4-50°C				
Max. Operating Pressure	4.0 bar @ 50°C				
Diffusion Flow (Air)	0.11 m² ≤12ml/min@1.0bar, 0.46 m² ≤50ml/min@1.0bar				
	0.5 m² ≤55ml/min@1.0bar, 2.5 m² ≤270ml/min@1.0bar				
Pressure Drop	0.3~0.6 bar (Circulation Flow Rate 6L/min/m²)				

Types	Available Size	Applications	Throughput	Notes
Lab LA	100 cm ² 200 cm ² 0.11 m ²	R&D R&D, Pilot Production		
Flow FL	0.46m ² 0.5m ² 2.33m ² 2.5m ²	Pilot Production, Process Scale Production Pilot Production, Process Scale Production	>50L >50L	Stainless Steel Holder required

Types	Consieve Flow	Consieve Flow B		
Part No.	UFCFL0003250P	UFCFL0003B250P		
Lot	3510SDR23410	3510SDR23411		
Appearance				
Description	same raw material same production process difference in appearance	same raw material same production process difference in appearance		
Materials of Construction	The Membrane , Encapsulant , S the Gasket are all same	Screen and		

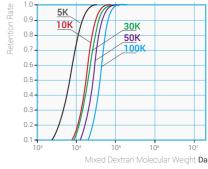
PES Ultrafiltration Membrane

- Mixed Dextran Retention Curve

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Consieve® UET

Lot No.190611G00101



Ordering Information

Cobetter Consieve UET Cassettes(Coarse Screen)

Application	Format	Screen Type	NMWL	Туре	Effective Filtration Area	Industry
<u>UFE</u>	<u>LA</u>	<u>O</u>	001		<u>001</u>	<u>P</u>
UFE Cobetter Consieve UET	LA Lab FL Flow	O Coarse Screen	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFE Cobetter Consieve UET	FL Flow	O Coarse Screen	300 300 KD 500 500 KD 01K 1000 KD	В	050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UETA Cassettes(Tight Screen)

Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
<u>UFE</u>	<u>LA</u>	<u>A</u>	001		001	<u>P</u>
UFE Cobetter Consieve UET	LA Lab FL Flow	A Tight Screen	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD 100 100 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFE Cobetter Consieve UET	FL Flow	A Tight Screen	500 500 KD 01K 1000 KD	В	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UETV Cassettes(Suspended Coarse)

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Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
<u>UFE</u>	<u>LA</u>	V	001		002	<u>P</u>
UFE Cobetter Consieve UET	LA Lab FL Flow	V Suspended Coarse	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD 100 100 KD 300 300 KD	Blank	002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFE Cobetter Consieve UET	FL Flow	V Suspended Coarse	01K 1000 KD	В	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFC Cassettes(Coarse Screen)

Application	Format	Screen Type	NMWL	Туре	Effective Filtration Area	Industry
<u>UFC</u>	<u>LA</u>	<u>O</u>	001		001	<u>P</u>
UFC Cobetter Consieve UFC	LA Lab FL Flow	O Coarse Screen	001 1 KD 002 2 KD 003L 3 KDL 003H 3 KDH 003 3 KD 005 5 KD 008 8 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFC Cobetter Consieve UFC	FL Flow	O Coarse Screen	010 10 KD 030 30 KD 100 100 KD 300 300 KD	В	050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFCA Cassettes(Tight Screen)

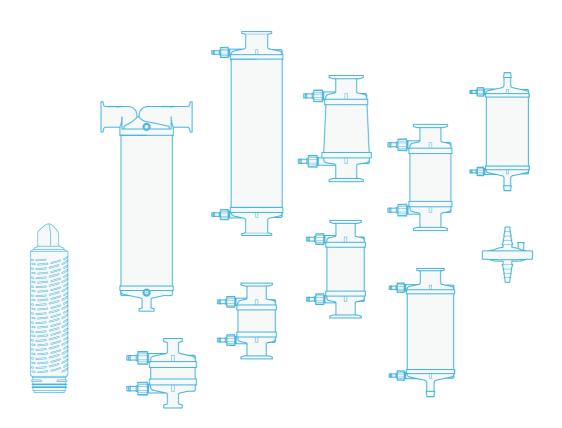
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
<u>UFC</u>	<u>LA</u>	<u>A</u>	030		<u>001</u>	<u>P</u>
UFC Cobetter Consieve UFC	LA Lab FL Flow	A Tight Screen	030 30 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFC Cobetter Consieve UFC	FL Flow	A Tight Screen		В	0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFCV Cassettes(Suspended Coarse)

Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
UFC	<u>LA</u>	V	001		002	<u>P</u>
UFC Cobetter Consieve UFC	LA Lab FL Flow	V Suspended Coarse	001 1 KD 002 2 KD 003L 3 KDL 003H 3 KDH 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD	Blank	002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFC Cobetter Consieve UFC	FL Flow	V Suspended Coarse	300 300 KD	В	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Our Mission

Committed to providing excellent products and continuous innovative solutions, we help customers optimise their process and improve product quality.





Please contact us for more in

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