Consieve UFC

TFF Cassette with RC Membrane



Consieve UFC RC Cassette has the characteristics of high flux, strong anti-pollution ability, and easy cleaning. The cassette uses regenerated cellulose(RC) membrane material, which has very good hydrophilic properties and ultra-low protein binding and adsorption, lower leachables, and good solvent resistance make it suitable for ultrafiltration process of antibodies, recombinant proteins, blood and other biological applications. Low working volume and high efficiency ensure product ensure product yields.

Material

Membrane	Regenerated Cellulose(RC)
Screen	PP
Gasket	Silicone
Sealant	Silicone
Material Features	Low protein binding and high product yield High flux Special solvent resistance

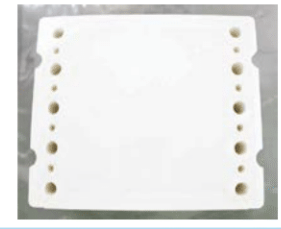
Information

PH Range	1-14
NMWL	1/3/5/8/10/30/50/100/300/500/1000KD
Max. Operating Temperature	50°C
Max. Operating Pressure	4bar
Integrity	100% Integrity testing
Tangential Flow Rate	100% Tangential flow rate testing
Biocompatibility	Component materials meet the requirements of the current USP<88> for plastic class VI.

Filters Type

Format	Abbr.	Available Size	R&D	Throughput	Notes
Lab	LA	100 cm² 200 cm² 0.11 m²	R&D R&D, Pilot	200-2000ml 200-2000ml 5-50L	Cassette, Stainless steel holder required
Flow	FL	0.46 m² 0.5 m² 2.33 m² 2.5 m²	Pilot, Process Pilot, Process	>50L >50L	

Comparison between Flow B and normal, take RC3K as example:

Format	Normal Flow	Flow B
Part No.	UFCFL0003250P	UFCFL0003B250P
Batch No.	3510SDR23410	3510SDR23411
Appearance	 Length: 203mm Width: 172mm Height: 82mm	 Length: 212mm Width: 175mm Height: 82mm
Material	Membrane, Screen, Silicone Sealing are consistent	
Batch release testing	Appearance cleanliness, tangential flow rate, integrity test methods, and standards are consistent	
Package	Preservation solution and packaging method are consistent	
Conclusion	In summary, except for the differences in appearance and size, the two products are consistent in terms of materials, production processes, effective area, product performance control, etc., the length and width expansion parts of the Flow B cassette are filled with silicone glue, more compatible and higher installation matching with the holder.	

Ordering Information

Cobetter Consieve UFC Cassettes (Standard Coarse Screen)

Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
UFC	LA	0	001		001	P
UFC Cobetter Consieve UFC	LA Lab FL Flow	0 Standard Coarse Screen	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 100 100 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 Standard Coarse Screen	300 300 KD	B	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
UFC	LA	A	030		001	P
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		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFCV Cassettes (Suspended Screen)

Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
UFC	LA	V	001		002	P
UFC Cobetter Consieve UFC	LA Lab FL Flow	V Suspended	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 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
UFC Cobetter Consieve UFC	FL Flow	V Suspended		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Consieve 2 UFC

TFF Cassette with RC Membrane



Consieve 2 UFC RC membrane cassettes employ polyurethane resin encapsulation, significantly increases structural rigidity and compression resistance, ensuring dimensional stability of flow channels. The cassettes demonstrate excellent linear scalability from lab-scale development to production-scale manufacturing. With optimized flow path configurations and multiple channel options, users can select the most suitable flow structure based on application requirements to improve process economics.

The regenerated cellulose (RC) ultrafiltration membrane demonstrates strong hydrophilicity, low absorption, low extractables, and excellent organic solvent resistance, offering advantages such as high flux, strong antifouling capability, and ease of cleaning/regeneration.

Material

Membrane	Regenerated Cellulose(RC)
Screen	PP
Gasket	Silicone
Adhesive	Polyurethane
Material Features	Low protein binding and high product yield High flux Special solvent resistance

Information

pH Range	2-13
NMWL	1/2/3/5/8/10/30/100/300 KD, 1KH/3KH/3KL/30KH/100KH
Max. Operating Temperature	50°C
Max. Operating Pressure	4bar
Integrity	100% Integrity testing
Tangential Flow Rate	100% Tangential flow rate testing
Biocompatibility	Component materials meet the requirements of the current USP<88> for plastic class VI.

Ordering Information

Cobetter Consieve™ 2 UFCA Ultrafiltration Cassettes

Application	MWCO	Screen Type	Effective Filtration Area	Industry
UF2MC	030S	A	01	P

Application		MWCO		Screen Type		Effective Filtration Area		Industry	
UF2MC	Cobetter Consieve™ 2 UFCA	030S	30KD	A	Tight Screen	01	0.01 m²	P	Pharmaceutical
		030H	30KDH			02	0.02 m²		
						10	0.11 m²		
						50	0.5 m²		
						25	2.5 m²		

Cobetter Consieve™ 2 UFCC Ultrafiltration Cassettes

Application	MWCO	Screen Type	Effective Filtration Area	Industry
UF2MC	001S	C	01	P

Application		MWCO		Screen Type		Effective Filtration Area		Industry	
UF2MC	Cobetter Consieve™ 2 UFCC	001S	1KD	C	Standard Screen	01	0.01 m²	P	Pharmaceutical
		001H	1KDH			02	0.02 m²		
		002S	2KD			10	0.11 m²		
		003S	3KD			50	0.5 m²		
		003H	3KDH			25	2.5 m²		
		003L	3KDL						
		005S	5KD						
		008S	8KD						
		010S	10KD						
		030S	30KD						
		030H	30KDH						
		050S	50KD						
		100S	100KD						
		100H	100KDH						
		300S	300KD						

Cobetter Consieve™ 2 UFCD Ultrafiltration Cassettes

Application	MWCO	Screen Type	Effective Filtration Area	Industry
UF2MC	001S	D	01	P

Application		MWCO		Screen Type		Effective Filtration Area		Industry	
UF2MC	Cobetter Consieve™ 2 UFCD	001S	1KD	D	Coarse Screen	01	0.01 m²	P	Pharmaceutical
		001H	1KDH			02	0.02 m²		
		002S	2KD			10	0.11 m²		
		003S	3KD			50	0.5 m²		
		003H	3KDH			25	2.5 m²		
		003L	3KDL						
		005S	5KD						
		008S	8KD						
		010S	10KD						
		030S	30KD						
		030H	30KDH						
		050S	50KD						
		100S	100KD						
		100H	100KDH						
		300S	300KD						

Cobetter Consieve™ 2 UFCV Ultrafiltration Cassettes

Application	MWCO	Screen Type	Effective Filtration Area	Industry
UF2MC	001S	V	01	P

Application		MWCO		Screen Type		Effective Filtration Area		Industry	
UF2MC	Cobetter Consieve™ 2 UFCV	001S	1KD	V	Suspended Screen	01	0.01 m²	P	Pharmaceutical
		001H	1KDH			02	0.02 m²		
		002S	2KD			10	0.11 m²		
		003S	3KD			50	0.5 m²		
		003H	3KDH			25	2.5 m²		
		003L	3KDL						
		005S	5KD						
		008S	8KD						
		010S	10KD						
		030S	30KD						
		030H	30KDH						
		050S	50KD						
		100S	100KD						
		100H	100KDH						
		300S	300KD						

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