

# TFF Cassettes

Consieve UET 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.

## Applications

- Biomacromolecules
- Dialysis
- Desalting
- Buffer replacement
- Analysis purification
- Endotoxin removal
- Macromolecular removal

## Fields

- Blood products
- Vaccines
- Recombinant proteins
- Monoterpenes
- Plasmids
- Chemicals
- Chinese medicine injections



## Information

Materials	PES
Material Features	Low protein binding and high product yield superior flow rates
PH Range	Broad chemical compatibility: pH 1-14
NMWL	5/8/10/30/50/100KD
Operating Temperature Range	4-50°C
Max. Operating Pressure	6.0 bar @ 25°C
Diffusion Flow (Air)	0.11 m <sup>2</sup> ≤12ml/min@1.0bar, 0.46 m <sup>2</sup> ≤50ml/min@1.0bar
Pressure Drop	0.3-0.6 bar ( Circulation Flow Rate 6L/min/m <sup>2</sup> )

Types	Available Size	Applications	Throughput	Notes
Lab <b>LA</b>	100 cm <sup>2</sup> 0.11 m <sup>2</sup>	R&D R&D, Pilot Production	200-2000ml 5-50L	Membrane Cassette ; Stainless Steel Holder required
Flow <b>FL</b>	0.46 m <sup>2</sup> 2.33 m <sup>2</sup>	Pilot Production, Large Scale Production Pilot Production, Large Scale Production	> 50L > 50L	
SCU <b>SC</b>	0.11 m <sup>2</sup>	R&D, Pilot Production	5-50L	Plastic Housing , self-clamping

## TFF Cassettes Example : UFELA0005001P



Application

**UF** Ultrafiltration



Material of membrane

**E** PES



Format

**LA**  
**FL**  
**SC**



NMWL

**0005** 5 KD  
**0008** 8 KD  
**0010** 10 KD  
**0030** 30 KD  
**0050** 50 KD  
**0100** 100 KD



Effective Filtration Area

**001** 100 cm<sup>2</sup>  
**010** 0.11 m<sup>2</sup>  
**050** 0.46 m<sup>2</sup>  
**250** 2.33 m<sup>2</sup>



Industry

**P**

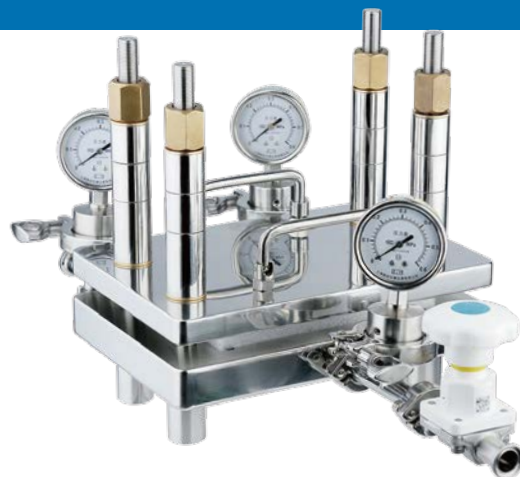
# H-CFH TFF Stainless Steel Holder



## 0.1 m² Stainless Steel Holder

Process development and small-volume parentals production with an EFA of 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 0.5 m² -2.5 m² up to 5 m²

## Ordering Information

	Effective Filtration Area	Filter Plate Material	Inlet/Outlet/Retentate	Seals Materials	Surface Finish	Design Pressure	Industry
H-CFH	<u>01</u>	<u>S</u>	<u>T15</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
	01 0.1 m²	S 316L	T15 DN15	S Silicone	A Mirror Polish	X 0.6Mpa	P Pharmaceutical
	05 0.5 m²		T20 DN20				
	25 2.5 m²		T38 DN38				
	...						

# TFF System

Cobetter is able to design TFF system based on customer specifications and requirements especially for Pilot Labs and Process Systems



## Pilot System

Throughput (50-100L)

