

- Patented SmartFlow® technology for improved fluid dynamics
- Accurate scale-up to production TFF systems
- Wide range of membrane materials and pore sizes for UF and MF applications
- Easy to clean and cost effective for reproducible results regardless of scale
- Higher yields from improved design and better fluid dynamics

ConSep® 1000 Filter Holder and Module

Laboratory filtration

The ConSep® 1000 is the perfect laboratory module for all bench top filtration applications including cell separation, protein concentration, and diafiltration of salts. These convenient and economical modules are compatible with your existing laboratory equipment. Whether you are developing a process for future scale-up or performing scale down trials, ConSep filter modules with the patented *SmartFlow*® technology offer improved fluid dynamics providing true linear scalability, maximum yields, and decreased processing times.

ConSep filter modules are available in a broad range of membrane pore sizes and polymers, making the ConSep 1000 an ideal tool for laboratory TFF testing / optimization of operations such as harvesting culture bags and bench top fermentors. ConSep 1000 modules provide the opportunity to compare membrane options, channel heights, shear rates, and TMP. In addition, these modules offer a unique dual mode of operation allowing the module to be configured in either cross-flow (TFF) or dead end cartridge mode.

Support

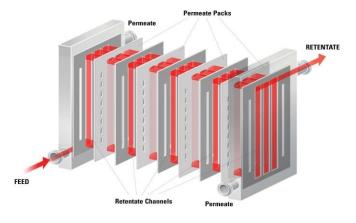
In addition to its market leading filter modules, SmartFlow offers Applications and Technical Support. These programs provide experienced and dedicated application specialists, process engineers, and validation support engineers to assist you with process development and process optimization programs, as well as integrating PuroSep® systems and ConSep filter modules into your process so that you can quickly realize the benefits provided by *SmartFlow* TFF technology.

Optimized Bench Top Performance

- Algae or Cell
 Culture Harvest
- Bench Top Fermentors
- Desalting
- MF and UF Applications

Specifications

Standard Membrane Ranges	Regenerated Cellulose: 10, 30, 100 kDa	
Available	Polyethersulfone: 4 – 1000 kDa	
7 transact	Nylon: 0.1 – 0.8μm	
	- 14γιστί	
	Contact SmartFlow Technologies for a complete list of	
	membranes available for the ConSep 1000 Holder	
Volume Range	100mL to 10L	
Internal dead volume	Approximately 10ml	
Pressure rating	60 psig (4.1 Bar)	
Standard Holder Connections	Inlet and Outlet: ½" TC	
	Pressure gauge ports: ½" TC (2 tri-clamp gauges included)	
	Two 3/8" (9.5mm) hose barb permeate ports	
Standard Channel Heights	0.375mm, 0.5mm, 0.65mm, 0.75mm, 0.875mm, 1.0mm, 1.5mm,	
	2mm, 3mm	
Membrane Area	0.007m ² (0.08 ft ²) 0.045m ² (0.5 ft ²)	
(Four Module Sizes Available)	0.022m ² (0.25 ft ²) 0.075m ² (0.8 ft ²)	
	** Modules are stackable in both parallel and series flow paths.	
Component Material	Based on supplier information, no critical components contain	
	material from an animal origin. All material utilized in module	
	manufacture requires an approved and acceptable certificate of	
	conformance from the supplier, including successful test reports.	
Integrity Testing	All SmartFlow Technologies modules must pass an approved	
	integrity testing procedure based on air diffusion through a	
	wetted module.	



SmartFlow® TFF: "Delivering the promise of TRUE TFF Functionality"

The SmartFlow® performance advantage comes from the patented SmartFlow tangential flow filtration technology. The SmartFlow technology in the ConSep® filter module is comprised of two primary developments: 1) unique flow channels and 2) diagonally opposed inlet and outlet ports provide uniform fluid dynamics. These advancements allow for consistent fluid distribution across the entire membrane surface. The benefits of SmartFlow technology include: improved cleaning, increased flux rate, true linear scalability, and increased yields resulting in more efficient downstream processes than in traditional TFF.

ConSep 1000 Holder

Description	Catalogue Number
ConSep® 1000 Holder	
½" Inlet / Outlet	
With two (2) tri-clamp	30-900-2050
pressure gauges	
0-100 psig (0-7 bar)	

To Place an Order or Receive Additional Information, please contact our global headquarters:

SmartFlow Technologies 3308 Lee Avenue Sanford, NC 27332 Phone: (919) 387-8460

E-mail: info@smartflow-tech.com
Website: www.smartflow-tech.com
www.smartflowindustrial.com