



# ConSep® 11000 Filter Holder and Module

## Ideal for production scale

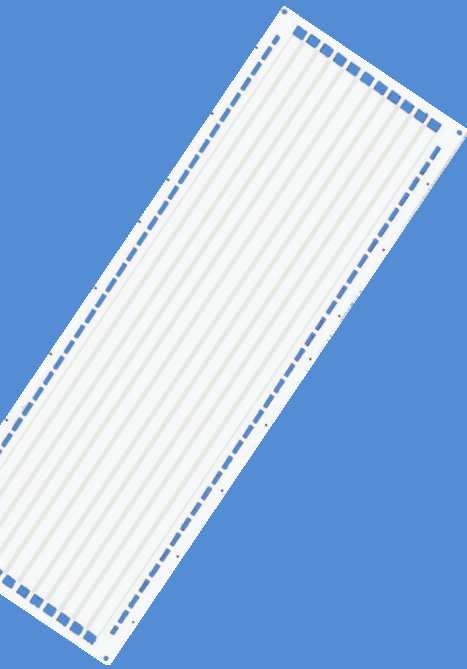
The ConSep 11000 is the perfect production module designed to match the downstream processing needs of volumes from 25L to 2,000,000L. The ConSep 11000 stands alone as the world foremost membrane filtration module for a wide variety of high volume processes.

Incorporating the patented *SmartFlow*® technology, ConSep 11000 filter modules offer the improved fluid dynamics required for isolating products from high solids fermentation and process stream applications such as foods based production lines, biofuels, and nutraceuticals. ConSep filter modules are used in recovering high value components form process streams to reduce or eliminate disposal cost and simultaneously provide an additional revue stream for the sale of the high value component.

ConSep filter modules are available in a broad line of membrane pore sizes, polymers and channel heights making the ConSep 11000 the world's most efficient and economical production module ideally suited for those looking to scale-up their process. Look to SFT and the ConSep 11000 filter module with *SmartFlow*® technology for the benefits that will exceed your expectations and deliver significant improvements to your productivity.

## Support

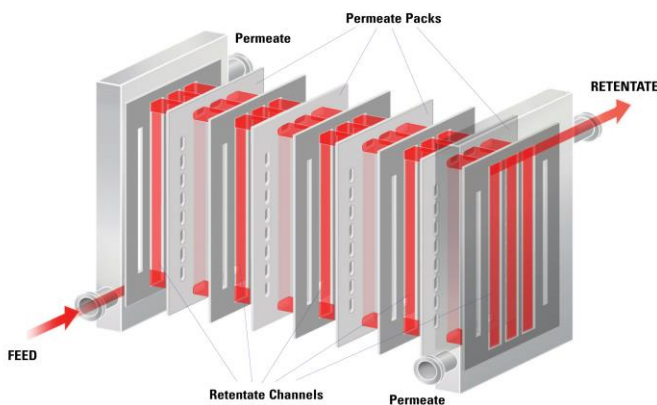
In addition to its patented filter modules, SFT, Inc. offers Applications and Technical Support. These programs provide experienced and dedicated application specialists, process engineers, and validation support engineers to assist you with process development and process optimization programs as well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



- **Patented *SmartFlow*® technology for improved fluid dynamics**
- **Accurate scale down to ConSep 1000, ConSep 3000 or ConSep 7000**
- **Widest range of membrane materials and pore sizes for MF, UF, NF and low pressure RO applications**
- **Easy to clean and cost effective for reproducible results regardless of scale**
- **Higher yields from improved design and better fluid dynamics**

## Specifications

<b>Standard Membrane Ranges Available</b>	Regenerated Cellulose: 10, 30, 100 kDa Polyethersulfone: 4 – 1000 kDa Nylon: 0.1 – 0.8µm Thin film composite – NF and low pressure RO  <b>Contact SFT for a complete list of membranes available for the ConSep® 11000 Holder</b>
<b>Volume Range</b>	25L to 2,000,000L
<b>Internal dead volume</b>	1.9L for the 3" TC connections 3.6L for the 4" TC connections
<b>Pressure rating</b>	150 psig (10.3 Bar)
<b>Standard Holder Connections</b>	Inlet and Outlet: 3" or 4" TC Four 1" TC permeate ports
<b>Standard Channel Heights</b>	0.375mm, 0.5mm, 0.65mm, 0.75mm, 0.875mm, 1.0mm, 1.5mm, 2mm, 3mm
<b>Membrane Area (Four Module Sizes Available)</b>	0.9m <sup>2</sup> (10 ft <sup>2</sup> ), 2.4m <sup>2</sup> (25 ft <sup>2</sup> ), 4.9m <sup>2</sup> (50 ft <sup>2</sup> ), 9.8m <sup>2</sup> (100 ft <sup>2</sup> ) ** Modules are stackable in both parallel and series flow paths.



### SmartFlow® TFF: “Delivering the promise of TRUE TFF Functionality”

The SFT 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 the SmartFlow™ technology include: improved cleaning, better LMH, true linear scalability and increased yields resulting in more efficient downstream processes than in traditional TFF.

## ConSep® 11000 Holder and Modules

Description	Catalogue Number
ConSep® 11000 Holder 3" TC Inlet/Outlet	90-900-2300
ConSep® 11000 Holder 4" TC Inlet/Outlet	90-900-2400
ConSep 11000 Filter Module 0.9m <sup>2</sup> (10 ft <sup>2</sup> )	91-XXX-XXXX
ConSep 11000 Filter Module 2.4m <sup>2</sup> (25 ft <sup>2</sup> )	99-XXX-XXXX
ConSep 11000 Filter Module 4.9m <sup>2</sup> (50 ft <sup>2</sup> )	92-XXX-XXXX
ConSep 11000 Filter Module 9.8m <sup>2</sup> (100 ft <sup>2</sup> )	94-XXX-XXXX

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

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