

# PUROSEP™ Lynx

## Tangential Flow

## Filtration Unit



Shown with optional OPTISEP® 1000

- **Economical and easy to implement solution**
- **Ultra low hold up volume (< 300mL)**
- **High pressure alternative to peristaltic pumps**
- **Modular design to accommodate OPTISEP® 1000 and 3000 holders and modules**

### Economical bench top solution!

As one of the industry's leading innovators of filtration technology, SmartFlow Technologies has designed and built the PUROSEP™ Lynx to provide a compact, economical, and easy to use solution offering unparalleled flexibility and performance at a value you cannot ignore. The Lynx is the perfect choice for process development optimization, membrane selection, and small scale production runs. The Lynx is designed for analytical methods involving isolating and concentrating products from varied sources, such as genetically modified organisms as well as naturally occurring fluids and homogenates.

The primary components of the Lynx are the 1 Liter polysulfone tank and diaphragm pump operating with either the OPTISEP 1000 or OPTISEP 3000 filter holder. This simple configuration makes the unit easy to set up, operate, clean, and maintain. Ultra low hold up volume is provided by the 1/2" (12mm) retentate loop size and a self-draining vertically ported diaphragm pump. This flexibility makes the Lynx the ideal bench top system for your current and future project studies.

### Specifications

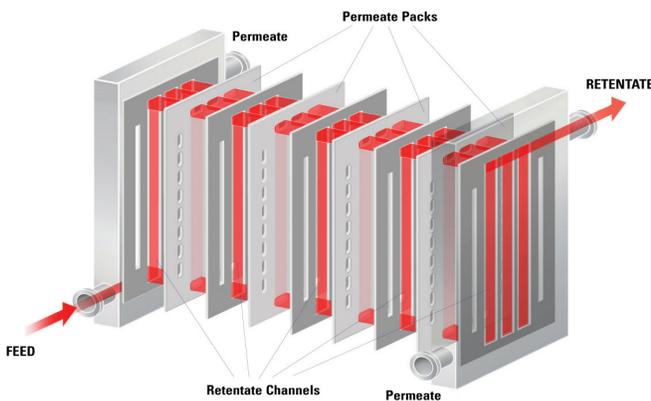
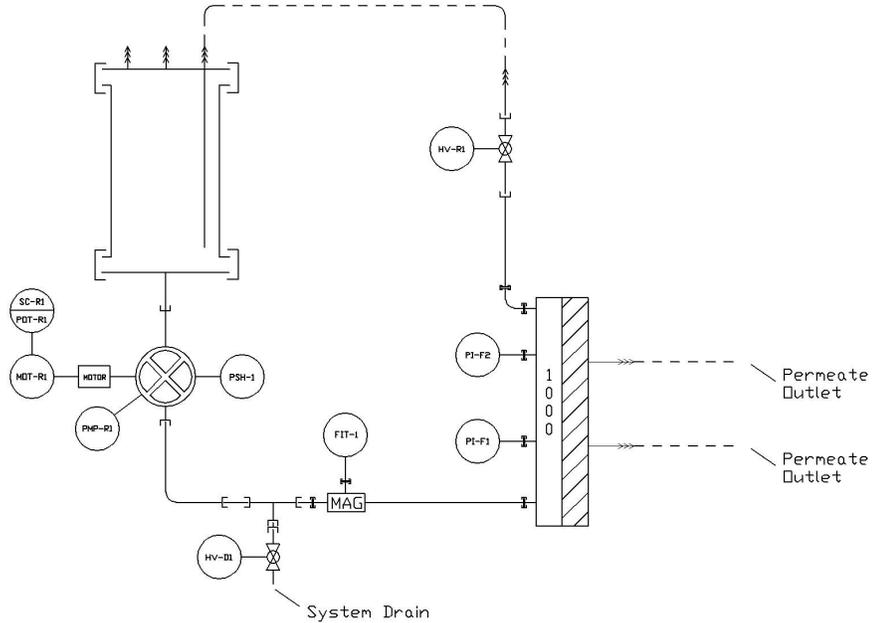
Tank	1L Polysulfone
Pump	Diaphragm Piston Pump
Pump Performance LPM at Pressure	8.7 LPM @ 30 psig 70 psig maximum
Motor	1/8HP (0.9 kW)
Filter Holder	OPTISEP 1000 and 3000
Retentate Loop Size	½" (12 mm) Ultra low hold-up (< 300mL)
Electrical Requirements	115 VAC, 10 amp, 1 phase, 60Hz OR 220 VAC, 10 amp, 1 phase, 50 Hz.
Dimensions	Length: 16in. (40cm ) Width: 11in. (28cm) Height: 24 in. (60cm) Weight: 15 lbs. (7kg)

# Available Options

- OPTISEP 1000 filter holder
- OPTISEP 3000 filter holder
- 316 L Heat Exchanger

## Validation and Support

In addition to its market leading Applications and Technical Support, SmartFlow Technologies also offers Validation 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 OPTISEP filter modules into your process so that you can more easily and quickly realize the benefits provided by *SmartFlow™-TFF*.



### **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 OPTISEP® filter modules 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.

## Lynx and Options

Description	Catalogue Number
PUROSEP Lynx	0003-00-01
OPTISEP® 1000 Holder ½" Inlet / Outlet	30-900-2050
OPTISEP 3000 Holder ¾" Inlet / Outlet	50-900-2075
316L Heat Exchanger	0003-HE-01

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