

## ▲ BioProducer41 ReUse



The **BioProducer41 ReUse** is a production scale hollow fiber cartridge designed for biopharmaceutical concentration/diafiltration and clarification unit operations. With a surface area of 5.0 m<sup>2</sup>, the **BioProducer41 ReUse HF** cartridge can accommodate batch volumes between 75 L and 500 L with a typical process flow of 250 L/hr.

The **BioProducer ReUse** cartridges are ideal for concentration and diafiltration of peptides, enzymes, monoclonal antibodies and other proteins and vaccines as well as cell harvest and cell clarification.

The **BioProducer41 ReUse** cartridges utilize WaterSep's well accepted antifouling, low binding, modified polyethersulfone (m-PES), membrane and are offered in molecular weight cut-offs (MWCO) that range from 3K to 750K and in pore sizes from 0.1  $\mu$ m, 0.2  $\mu$ m, 0.45  $\mu$ m and 0.65  $\mu$ m, with Lumen ID's of 0.5 mm, 1.0 mm and 2.0 mm. The antifouling properties of the m-PES membranes typically provide superior process flux and higher product recovery than do most other cross flow devices.

The **BioProducer41 ReUse** hollow fiber cartridges are offered with the same path length as other high performance WaterSep HF cartridges, which makes scale up/scale down easy and predictable.

The **BioProducer ReUse** cartridges can be sanitized and cleaned in 0.5-1.0 N NaOH, and stored in 0.1 N NaOH between uses.

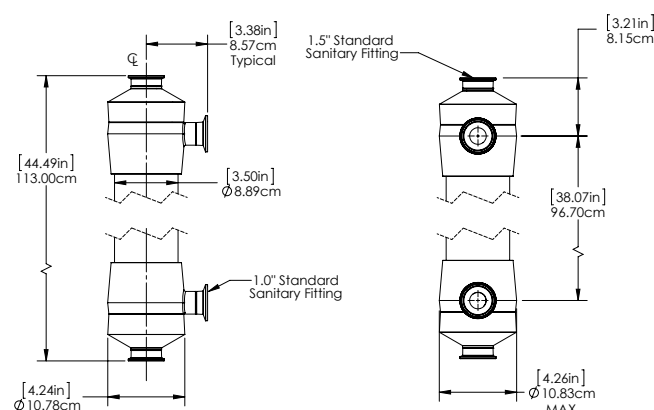
## ReUsable Hollow Fiber Cartridges

For those applications where re-use is acceptable, the **BioProducer41 ReUse** cartridges offer:

- Self-containment – no assembly – ease of use.
- Very cost effective in large scale format (hollow fiber products that are 4x-6x less expensive than most cassettes and do not require any expensive hardware for installation).
- Gentle processing of cells, bio molecules and viruses.
- Low hold-up volume.
- High process flux, due to antifouling low binding m-PES membrane chemistry.
- Robust, strong, multi-use hollow fiber membranes.
- High yields and easy cleaning.
- 100% integrity tested and ready to use cassettes.
- Very tight specifications and high lot-to-lot membrane consistency.
- Easy and reliable scale up.

## TYPICAL APPLICATIONS

- Clarification of cell culture and fermentation suspensions in primary recovery applications.
- Cell-harvest. (Excellent results have been achieved with both *E. Coli* whole cells and *E. Coli* lysates, as well as other microbial process streams.)
- Concentration and purification of vaccines.
- Concentration/diafiltration of monoclonal antibodies, recombinant proteins, biological macromolecules and peptides.



## ▲ BioProducer41 ReUse

### Ordering Information

Replace XXX with 003 for 3K, 005 for 5K, 010 for 10K, 030 for 30K, 050 for 50K, 100 for 100K, 300 for 300K, 500 for 500K, 750 for 750K, 910 for 0.1  $\mu\text{m}$ , 920 for 0.2  $\mu\text{m}$ , 945 for 0.45  $\mu\text{m}$ .and 965 for 0.65  $\mu\text{m}$ .

BA XXX 05PRO41 SG

BA XXX 05PRO41 SK

BioProducer41 ReUse HF Cartridge

53.8 ft<sup>2</sup>, (5 m<sup>2</sup>)

0.5 mm ID

1/pkg

BA XXX 10PRO41 SG

BA XXX 10PRO41 SK

BioProducer41 ReUse HF Cartridge

53.8 ft<sup>2</sup>, (5 m<sup>2</sup>)

1 mm ID

1/pkg

BA XXX 20PRO41 SG

BA XXX 20PRO41 SK

BioProducer41 ReUse HF Cartridge,

53.8 ft<sup>2</sup>, (5 m<sup>2</sup>)

2 mm ID

1/pkg

### SPECIFICATIONS

Cartridge Dimensions

44.49" (113 cm) x 3.5" (8.89 cm)

Membrane Surface Area

53.8 ft<sup>2</sup> (5 m<sup>2</sup>)

Molecular Weight Cut-off

3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size

0.1  $\mu\text{m}$ , 0.2  $\mu\text{m}$  and 0.45  $\mu\text{m}$ , 0.65  $\mu\text{m}$

Fiber ID

0.5mm, 1.0mm, 2.0mm

### MATERIALS OF CONSTRUCTION

Membrane

Modified Polyethersulfone (m-PES)

Housing

White Polysulfone

Encapsulant

USP Class VI - Epoxy

### CONNECTIONS

Feed/Retentate

1.5" TC (SK)

3.0" TC (SG)

Permeate

1.0" TC