

## mini-BioProducer™ 41 ReUse

### ReUsable Hollow Fiber Cartridges High Flux — Consistent Results



The mini-BioProducer™ 41 ReUse series of crossflow hollow fiber membrane cartridges are designed for pilot scale and medium scale production and is the perfect tool for process development. With a surface area of 2.50 m<sup>2</sup>, the mini-BioProducer™ 41 ReUse can accommodate batch volumes that range from 25L to 250L with a permeate flow rate for ultrafiltration processes of up to 150 L/hr.

The mini-BioProducer™ 41 ReUse HF 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 mini-BioProducer™ ReUse cartridges integrate WaterSep's well accepted antifouling, low binding, modified polyethersulfone membrane (m-PES) and are offered in molecular weight cut-offs (MWCO) that range from 3K to 750K and in pore sizes from 0.1µm to 0.65µm, with Lumen ID's of 0.5mm, 1.0mm and 2.0mm. The antifouling properties of the m-PES membranes typically provide superior process flux and higher product recovery than do most other crossflow devices.

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

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

For those applications where cleaning and reuse is acceptable, the mini-BioProducer™ 41 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, biomolecules 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

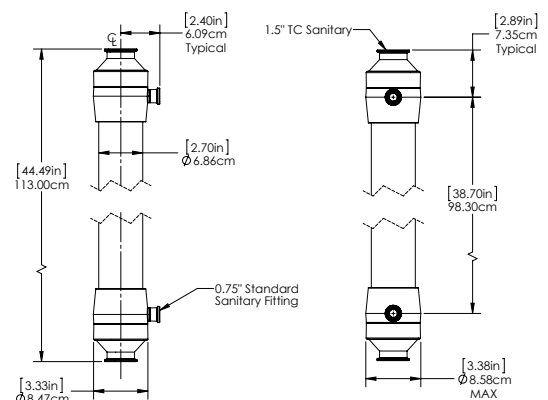
Clarification of cell cultures and fermentation suspensions in primary recovery applications.

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 and diafiltration of gene therapy products.

Concentration/diafiltration of monoclonal antibodies, recombinant proteins, biological macromolecules and peptides.



## ▲ mini-BioProducer™ 41 ReUse

### ORDERING INFORMATION

Place orders online at [www.watersep.net](http://www.watersep.net), or email purchase orders to [orders@watersep.net](mailto:orders@watersep.net), sales order confirmation to follow.

### mini-BioProducer™ 41 ReUse HF Cartridge

0.5mm Fiber ID  
BA XXX 05MPR41 SG, 1/pkg

1.0mm Fiber ID  
BA XXX 10MPR41 SG, 1/pkg

2.0mm Fiber ID  
BA XXX 20MPR41 SG, 1/pkg  
\*Available in 10K, 50K, 300K-750K and 0.1µm-0.65µm

Replace XXX with:

003 for 3K	100 for 100K	910 for 0.1µm
005 for 5K	300 for 300K	920 for 0.2µm
010 for 10K	500 for 500K	945 for 0.45µm
030 for 30K	750 for 750K	965 for 0.65µm
050 for 50K		

### SPECIFICATIONS

Cartridge Dimensions  
2.70" (6.86 cm) x 44.49" (113 cm)

Membrane Surface Area  
26.9 ft<sup>2</sup> (2.50 m<sup>2</sup>)

Molecular Weight Cut-off  
3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size  
0.1µm 0.2µm, 0.45µm and 0.65µm

Fiber ID  
0.5mm, 1.0mm, 2.0mm

### MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane  
Modified Polyethersulfone (m-PES)

Housing  
White Polysulfone

Encapsulant  
Medical Grade Epoxy

### CONNECTIONS

Feed/Retentate  
1.5" TC

Permeate  
0.75" TC

Technical Support: [experttalk@watersep.net](mailto:experttalk@watersep.net)  
or call 508.970.0089 x 204.