

# → mini-BioProducer12 Green

# Single Use Gamma Irradiated Hollow Fiber Cartridges. Easy and Reliable



The mini-BioProducer Green hollow fiber cartridges are designed for pilot and small production scale and are the perfect tools for process development. With a surface area of 0.63 m², the mini-BioProducer12 Green HF cartridge can accommodate batch volumes between 5L and 50L with a typical permeate flow rate of 18.9-37.8 L/ hr for ultrafiltration applications and 12.6-25.2 L/hr for microfiltration applications.

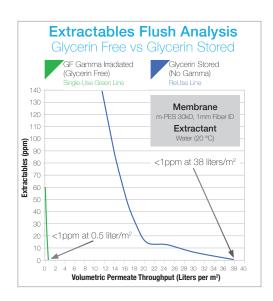
The mini-BioProducer Green cartridges utilize WaterSep's antifouling, low binding, modified polyethersulfone membrane (m-PES) which provides a process flux and product recovery that often exceeds other cross flow devices.

The mini-BioProducer12 Green hollow fiber cartridges are offered with the same path length as other high performance WaterSep HF cartridges, which makes scale up and scale down easy and predictable.

Mini-BioProducer Green cartridges are also offered as part of fully integrated open architecture single use cross flow assemblies available with pressure sensors, flow meters, pumps, aseptic connectors and/or bags.

The mini-BioProducer12 Green cartridges offer a true single use cross flow system that provides:

- Significant cost savings over traditional cassette formats.
- Gamma irradiated ready to use no pre-rinse.
- No humectants 80% less extractables, see Extractables Flush Analysis.
- No need for time-consuming cleaning validation.
- · Reduced risk of cross contamination.
- Consistent membrane performance batch to batch.
- Self-contained no assembly no expensive hardware – no membrane installation.
- Every HF cartridge is integrity tested and has an individual lot number for easy traceability.



#### TYPICAL APPLICATIONS

- Clarification of mammalian/CHO cell cultures and maximizing protein recovery.
- **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.

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## ORDERING INFORMATION

Place orders online at <a href="www.watersep.net">www.watersep.net</a>, or email purchase orders to <a href="mailto:orders@watersep.net">orders@watersep.net</a>, sales order confirmation to follow.

### mini-BioProducer12 Green HF Cartridge

0.5 mm Fiber ID\*

SU XXX 05MPR12 S3, 3/pkg

SU XXX 05MPR12 S6, 6/pkg

\*Not available in 0.65  $\mu$ m

1.0 mm Fiber ID

SU XXX 10MPR12 S3, 3/pkg

SU XXX 10MPR12 S6, 6/pkg

2.0 mm Fiber ID\*

SU XXX 20MPR12 S3, 3/pkg

SU XXX 20MPR12 S6, 6/pkg

\*Available in 10K, 50K, 300K - 750K and 0.1  $\mu$ m - 0.45  $\mu$ m

#### Replace XXX with:

003 for 3K	100 for 100K	910 for 0.1 $\mu$ m
005 for 5K	300 for 300K	920 for 0.2 μm
010 for 10K	500 for 500K	945 for 0.45 μm
030 for 30K	750 for 750K	965 for 0.65 μm

050 for 50K

### **SPECIFICATIONS**

Cartridge Dimensions 2.70" (6.86 cm) x 15.00" (38.10 cm)

Membrane Surface Area 6.78 ft<sup>2</sup> (0.63 m<sup>2</sup>)

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

Membrane Pore Size 0.1  $\mu$ m, 0.2  $\mu$ m and 0.45  $\mu$ m, 0.65  $\mu$ m

Fiber ID 0.5 mm, 1.0 mm, 2.0 mm

#### MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane

Modified Polyethersulfone (m-PES)

Housing

White Polysulfone

Encapsulant

Ероху

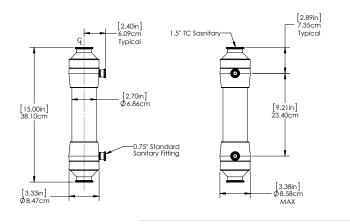
#### CONNECTIONS

Feed/Retentate

1.5" TC Standard Sanitary Fitting

Permeate

0.75" TC Standard Sanitary Fitting



Technical Support: <a href="mailto:experttalk@watersep.net">experttalk@watersep.net</a> or call 508.970.0089 x 204.