Researcher41ReUse

The Researcher ReUse hollow fiber membrane cartridges are positioned between the laboratory scale Explorer ReUse and the larger pilot scale Investigator ReUse cartridges and are designed for concentration and diafiltration of peptides, enzymes, monoclonal antibodies and other proteins and vaccines as well as cell harvest and cell clarification.

The membrane surface area for the Researcher41 ReUse is 1750 cm^2 making it suitable for preparative biopharmaceutical work with sample volumes between 600 ml and 8000 ml, and a product flow rate of up to 8,750 ml/hr.

The Researcher ReUse cartridges are made with WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES) and are offered in molecular weight cut-offs (MWCO) that range from 3K to 750K, and in pore sizes between 0.1 μm, and 0.65 μm, with Lumen ID's of 0.5 mm, 1.0 mm and 2.0 mm. The Researcher ReUse hollow fiber cartridges are offered with the same path length as other high performance WaterSep HF cartridges, This makes scale up/scale down easy and predictable.

The Researcher41 ReUse cartridges can be sanitized and cleaned in 0.5-1.0 N NaOH, and stored in 0.1 N NaOH between uses.

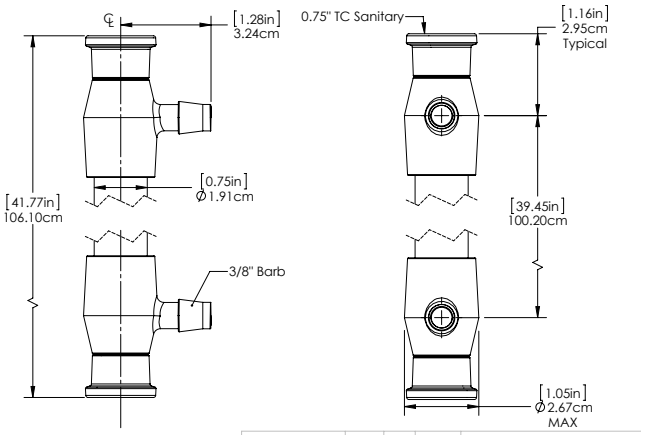
ReUsable Hollow Fiber Cartridges

For those applications where cleaning and re-use is warranted, the Researcher41 ReUse cartridges offer:

- Self-containment – no assembly – ease of use.
- Low hold up volume.
- High product flux and total capacity.
- Robust, strong, multi-use hollow fiber membranes.
- Low binding m-PES membrane - high yield and easy to clean.
- Complete membrane offering between 3K and 750K MWCO and between 0.1μm and 0.65 μm.
- Consistent membrane performance batch-to-batch
- 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.



WaterSep

Researcher41 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 μm, 920 for 0.2 μm, 945 for 0.45 μm.and 965 for 0.65 μm.

MA XXX 05RES41 SO

Researcher41 ReUse HF Cartridge
1.9 ft^2, 1750 cm^2)
0.5 mm ID
1/pkg

MA XXX 10RES41 SO

Researcher41 ReUse HF Cartridge
1.9 ft^2, (1750 cm^2)
1 mm ID
1/pkg

MA XXX 20RES41 SO

Researcher41 ReUse HF Cartridge,
1.9 ft^2, (1750cm^2)
2 mm ID
1/pkg

SPECIFICATIONS

Cartridge Dimensions
41.77” (106.10 cm) x .75” (1.91 cm)

Membrane Surface Area
1.9 ft^2 (1750 cm^2)

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

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

Fiber ID
0.5mm, 1.0mm, 2.0mm

MATERIALS OF CONSTRUCTION

Membrane
Modified Polyethersulfone (m-PES)

Housing
White Polysulfone

Encapsulant
USP Class VI - Compliant Epoxy

CONNECTIONS

Feed/Retentate
0.75” TC

Permeate
3/8” Barb

WaterSep BioSeparations Corporation
450 Donald Lynch Blvd.
Marlborough, MA 01752

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