

Investigator24 ReUse



The **Investigator ReUse** series of cross flow hollow fiber membrane cartridges are designed for pilot scale and small scale production and is the perfect tool for process development. With a surface area of 0.27 m², the **Investigator24 ReUse** can accommodate batch volumes that range from 2 L to 12 L with a typical process flow of 13.5 L/hr.

The **Investigator24 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 **Investigator 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 0.1 μm, 0.2 μm, 0.45 μm and 0.65 μm, 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 **Investigator 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 **Investigator24 ReUse** cartridges can be sanitized and cleaned in 0.5-1.0 N NaOH, and stored in 0.1 N NaOH between uses.

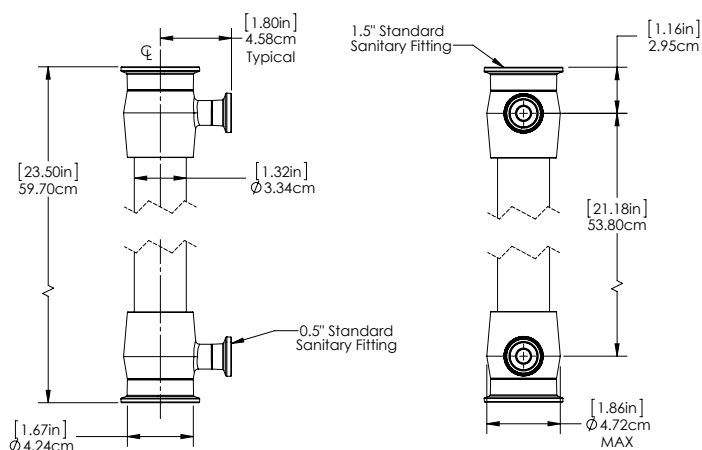
ReUsable Hollow Fiber Cartridges

For those applications where re-use is acceptable, the **Investigator24 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.
- A complete membrane offering between 3K and 750 K MWCO and between 0.1 μm 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.



Investigator24 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 .

WA XXX 05INV24 SO

Investigator24 ReUse HF Cartridge

2.9 ft², (0.27 m²)

0.5 mm ID

1/pkg

WA XXX 10INV24 SO

Investigator24 ReUse HF Cartridge

2.9 ft², (0.27 m²)

1 mm ID

1/pkg

WA XXX 20INV24 SO

Investigator24 ReUse HF Cartridge,

2.9 ft², (0.27 m²)

2 mm ID

1/pkg

SPECIFICATIONS

Cartridge Dimensions

23.5" (59.7 cm) x 1.32" (3.34 cm)

Membrane Surface Area

2.9 ft² (.27 m²)

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 - Epoxy

CONNECTIONS

Feed/Retentate

1.5" TC

Permeate

0.5" TC