

Investigator™ 12 ReUse

ReUsable Hollow Fiber Cartridges High Flux — Consistent Results

The **Investigator™ ReUse** series of crossflow hollow fiber membrane cartridges are designed for pilot scale and small scale production and are the perfect tool for process development. With a surface area of 1,300 cm², the **Investigator™ 12 ReUse** can accommodate batch volumes that range from 1L to 6L with a permeate flow for ultrafiltration processes of up to 7.8 L/hr.

The **Investigator™ 12 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 0.1µm 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 **Investigator™ 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 **Investigator™ 12 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 warranted, the **Investigator™ 12 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 0.65µm.
- Consistent membrane performance batch-to-batch
- Easy and reliable scale up and scale down.

TYPICAL APPLICATIONS

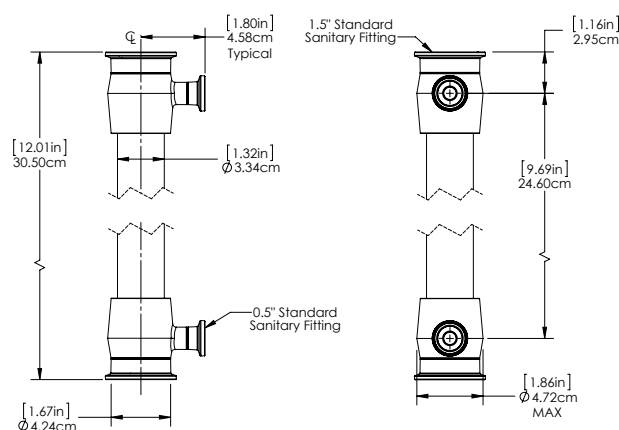
Clarification of cell cultures and fermentation suspensions in primary recovery applications.

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.



Investigator™ 12 ReUse

ORDERING INFORMATION

Place orders online at www.pure-gmbh.com or email purchase orders to support@pure-gmbh.com, sales order confirmation to follow

Investigator™ 12 ReUse HF Cartridge

0.5 mm Fiber ID

WA XXX 05INV12 S0, 1/pkg

1 mm Fiber ID

WA XXX 10INV12 S0, 1/pkg

2 mm Fiber ID

WA XXX 20INV12 S0, 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

12.01" (30.5 cm) x 1.32" (3.34 cm)

Membrane Surface Area

1.4 ft² (0.13 m²)

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

0.5" TC

Technical Support: support@pure-gmbh.com
or call +49 6431 49612 40.