

Discover12 Green Single Use Gamma Irradiated Hollow Fiber Cartridges Easy and Reliable



The **Discover Green** hollow fiber membrane cartridges are the cartridges of choice for small scale preparative protein and virus concentration/diafiltration, and cell clarification applications for volumes that range from 10 ml to 250 ml. The **Discover12 Green** cartridges have a membrane surface area of 52 cm², providing a typical permeate flow rate of 16-31 ml/hr for ultrafiltration applications and 10-21 ml/hr for microfiltration applications.

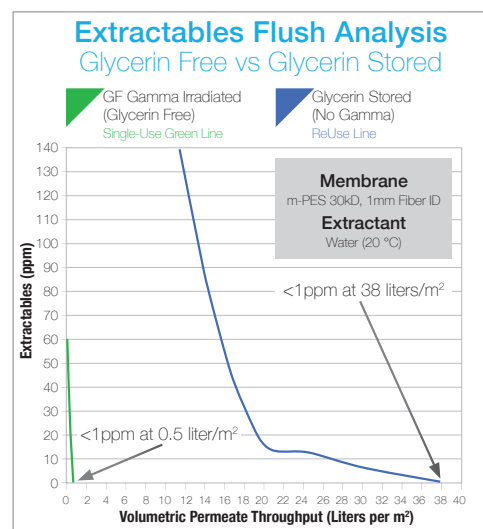
The **Discover Green** cartridges require no assembly or prerinsing and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the **Discover12 Green** cartridges is similar to all other WaterSep 12" (30 cm) hollow fiber cartridges making scale up very easy and predictable.

Every HF cartridge is integrity tested and has an individual lot number for easy traceability.

The **Discover12 Green** cartridges offer a true single use crossflow 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.



TYPICAL APPLICATIONS

- Clarification of **mammalian/CHO cell** cultures, providing maximum 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**.

Discover12 Green

ORDERING INFORMATION

Place orders online at www.watersep.net, or email purchase orders to orders@watersep.net, sales order confirmation to follow.

Discover12 Green HF Cartridge

0.5 mm Fiber ID*

SU XXX 05DIS12 L6, 6/pkg

SU XXX 05DIS12 LD, 12/pkg

*Not available in 0.65 μ m

1.0 mm Fiber ID

SU XXX 10DIS12 L6, 6/pkg

SU XXX 10DIS12 LD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20DIS12 L6, 6/pkg

SU XXX 20DIS12 LD, 12/pkg

*Available in 10K, 50K, 300K - 750K and 0.1 μ m - 0.45 μ m

Replace XXX with:

003 for 3K 100 for 100K 910 for 0.1 μ m

005 for 5K 300 for 300K 920 for 0.2 μ m

010 for 10K 500 for 500K 945 for 0.45 μ m

030 for 30K 750 for 750K 965 for 0.65 μ m

050 for 50K

SPECIFICATIONS

Cartridge Dimensions

0.38" (0.95 cm) x 12.88" (32.72 cm)

Membrane Surface Area

0.056 ft² (52 cm²)

Molecular Weight Cut-off

3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size

0.1 μ m, 0.2 μ m and 0.45 μ m, 0.65 μ 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

Epoxy

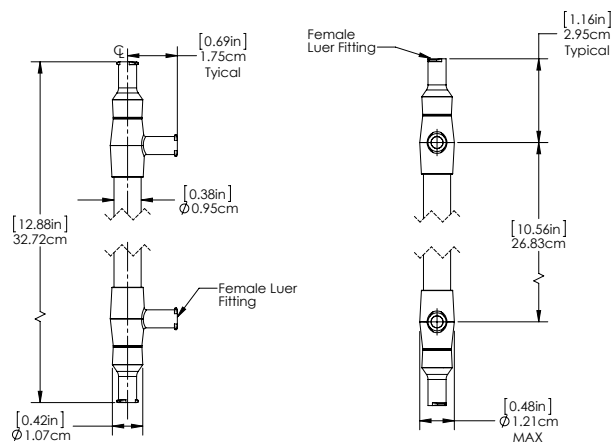
CONNECTIONS

Feed/Retentate

Female Luer Lok Fitting

Permeate

Female Luer Lok Fitting



Technical Support: experttalk@watersep.net
or call 508.970.0089 x 204.