

Discover™ 12 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The Discover™ Green hollow fiber membrane cartridges are the cartridges of choice for laboratory scale protein and virus concentration/diafiltration, and cell clarification applications for volumes that range from 10 mL to 250 mL. The Discover™ 12 Green cartridges have a membrane surface area of 52 cm², providing an average permeate flow rate of 160-320 mL/hr for ultrafiltration applications and 100-210 mL/hr for microfiltration applications.

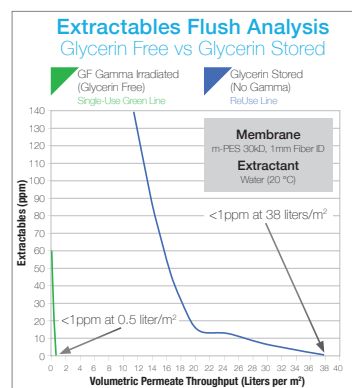
The Discover™ Green cartridges are gamma irradiated and ready to use with no assembly or prerinsing required, and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product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

The fluid path length for the Discover™ 12 Green cartridges is similar to all other WaterSep 12" hollow fiber cartridges making scale up very easy and predictable.

Discover™ Green cartridges are also offered as part of fully integrated open architecture single use crossflow assemblies available with pressure sensors, flow meters, pumpheads, aseptic connectors or bags.

The Discover™ 12 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 required.
- No humectants - 80x 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, 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**.

Discover™12 Green

ORDERING INFORMATION

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

Discover™12 Green HF Cartridge

0.5 mm Fiber ID

SU XXX 05DIS12 L6, 6/pkg

SU XXX 05DIS12 LD, 12/pkg

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	050 for 50K	750 for 750K
005 for 5K	100 for 100K	910 for 0.1 μ m
010 for 10K	300 for 300K	920 for 0.2 μ m
030 for 30K	500 for 500K	945 for 0.45 μ m

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

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

Medical Grade Epoxy

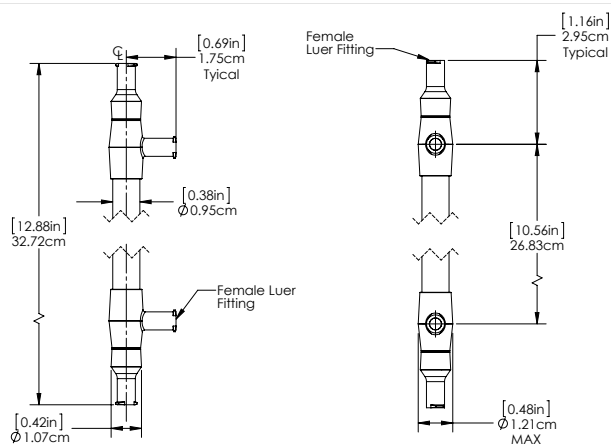
CONNECTIONS

Feed/Retentate

Female Luer Lok Fitting

Permeate

Female Luer Lok Fitting



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