

Explorer™ 12 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The Explorer™ 12 Green hollow fiber membrane cartridges are designed for laboratory scale biopharmaceutical applications for volumes that range from 150 mL to 750 mL with a final retentive volume of less than 35 mL. The Explorer™ 12 Green cartridges have a membrane surface area of 155 cm², providing an average permeate flow rate of 470-930 mL/hr for ultrafiltration applications and 310-620 mL/hr for microfiltration applications.

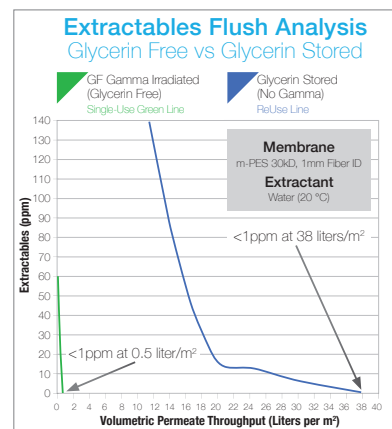
The Explorer™ Green cartridges are gamma irradiated and ready to use, and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

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

Explorer™ 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 Explorer™ 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 and maximizing **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**.

Explorer™ 12 Green

ORDERING INFORMATION

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

Explorer™ 12 Green HF Cartridge

0.5 mm Fiber ID

SU XXX 05EXP12 S6, 6/pkg

SU XXX 05EXP12 SD, 12/pkg

1.0 mm Fiber ID

SU XXX 10EXP12 S6, 6/pkg

SU XXX 10EXP12 SD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20EXP12 S6, 6/pkg

SU XXX 20EXP12 SD, 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

0.5" (12.7 mm) x 12" (305 mm)

Membrane Surface Area

0.17 ft² (155 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

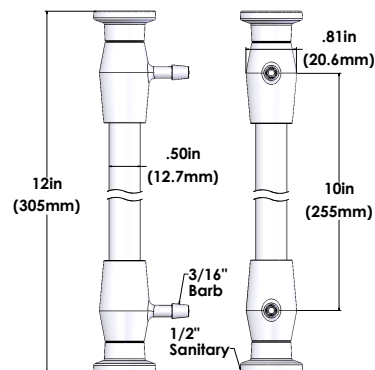
CONNECTIONS

Feed/Retentate

0.5" TC Sanitary Fitting

Permeate

3/16" Hose Barb



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