

▲ Explorer24 Green Gamma Irradiated Single Use Hollow Fiber Cartridges Easy and Reliable



The Explorer24 Green hollow fiber membrane cartridges are designed for medium scale biopharmaceutical laboratory applications for volumes that range from 250 ml to 1500 ml. The Explorer12 Green cartridges have a membrane surface area of 320 cm², providing a typical permeate flow rate of 1-1.9 L/hr for ultrafiltration applications and 0.64-1.3 L/hr for microfiltration applications.

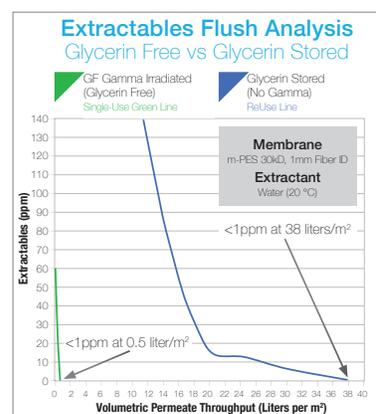
The Explorer Green cartridges require no assembly or prerinsing and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the Explorer24 Green cartridges is similar to all other WaterSep 24" (60 cm) hollow fiber cartridges making scale up/scale down very 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, pumps, aseptic connectors and/or bags.

The Explorer24 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.
- 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**.

Explorer24 Green

ORDERING INFORMATION

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

Explorer24 Green HF Cartridge

0.5 mm Fiber ID*

SU XXX 05EXP24 S6, 6/pkg

SU XXX 05EXP24 SD, 12/pkg

*Not available in 0.65 μ m

1.0 mm Fiber ID

SU XXX 10EXP24 S6, 6/pkg

SU XXX 10EXP24 SD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20EXP24 S6, 6/pkg

SU XXX 20EXP24 SD, 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

0.5" (13 mm) x 23.8" (605 mm)

Membrane Surface Area

0.344 ft² (320 m²)

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

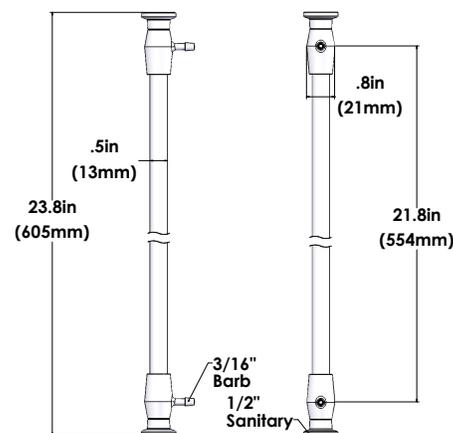
CONNECTIONS

Feed/Retentate

0.5" TC Sanitary Fitting

Permeate

3/16" Hose Barb



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