

▲ Explorer41 Green

Gamma Irradiated Single Use Hollow Fiber Cartridges Easy and Reliable



The Explorer41 Green hollow fiber membrane cartridges are designed for medium scale biopharmaceutical laboratory applications for volumes that range from 300 ml to 3000 ml, with a final retentive volume of less than 35 ml. The Explorer41 Green cartridges have a membrane surface area of 580 cm², providing a typical permeate flow rate of 1.7-3.5 L/hr for ultrafiltration applications and 1.2-2.3 L/hr for microfiltration applications.

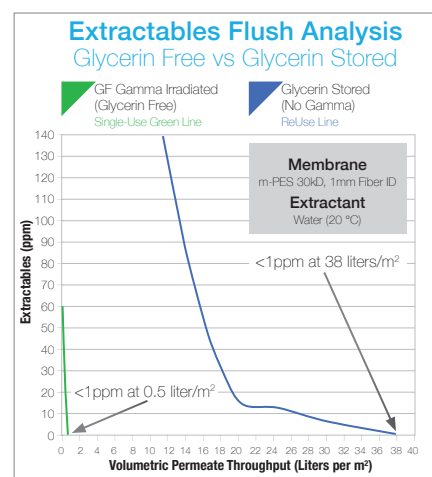
The Explorer Green cartridges require no assembly or prerinsing and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the Explorer41 Green cartridges is similar to all other WaterSep 41" 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 Explorer41 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**.

Explorer41 Green

ORDERING INFORMATION

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

Explorer41 Green HF Cartridge

SU XXX 05EXP41 S6, 6/pkg
SU XXX 05EXP41 SD, 12/pkg
0.5 mm Fiber ID*

*Not available in 0.65 μm

SU XXX 10EXP41 S6, 6/pkg
SU XXX 10EXP41 SD, 12/pkg
1.0 mm Fiber ID

SU XXX 20EXP41 S6, 6/pkg
SU XXX 20EXP41 SD, 12/pkg
2.0 mm Fiber ID*

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

Replace XXX with:

003 for 3K	100 for 100K	910 for 0.1 μm
005 for 5K	300 for 300K	920 for 0.2 μm
010 for 10K	500 for 500K	945 for 0.45 μm
030 for 30K	750 for 750K	965 for 0.65 μm
050 for 50K		

SPECIFICATIONS

Cartridge Dimensions
0.5" (13 mm) x 41.80" (1062 mm)

Membrane Surface Area
0.624 ft² (508 m²)

Molecular Weight Cut-off
3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K,

Membrane Pore Size
0.1 μm , 0.2 μm and 0.45 μm , 0.65 μm

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)

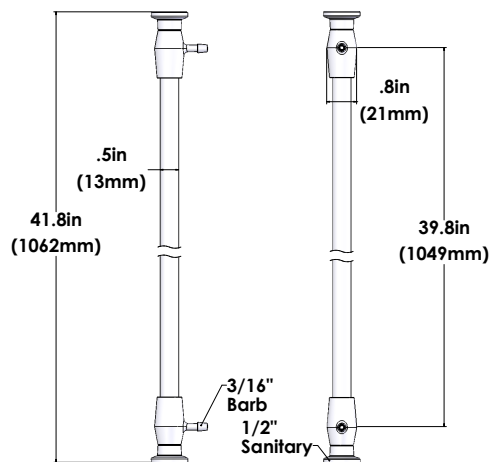
Housing
White Polysulfone

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.