

Grand24 XL Green

Single Use Hollow Fiber Cartridges

Easy and Reliable



Offered in a 8 m² membrane surface area for large scale biopharmaceutical concentration/diafiltration and clarification unit operations, the **Grand24 XL Green** hollow fiber membrane cartridge is one of WaterSep's larger production scale cartridges with a permeate flow rate of several thousand liters an hour with multi-cartridge set ups.

The **Grand24 XL Green** HF cartridge is compatible with most commercially available hollow fiber cartridges of similar size (6" x 24"). The **Grand24 XL Green** HF cartridge can be retrofitted to existing large scale crossflow skids or designed into new processes where high product yield and process flux are essential.

WaterSep offers the **Grand24 XL Green** HF cartridges in molecular weight cut-offs (MWCO) from 3K-750K Dalton and pore sizes from 0.1 μm to 0.45 μm.

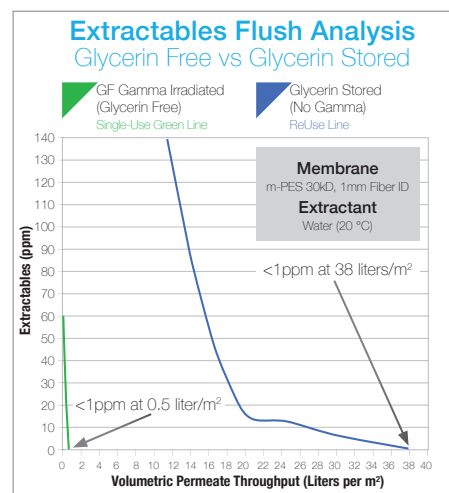
With a surface area of 8 m², a **Grand24 XL Green** HF cartridge can accommodate batch volumes between 250L and 800L, with a typical permeate flow rate of 240-480 L/hr for ultrafiltration applications and 160-320 L/hr for microfiltration applications.

The **Grand24 XL Green** cartridges utilize WaterSep's antifouling, low binding, modified polyethersulfone membrane (m-PES) which provides a process flux and product recovery that typically exceeds other crossflow devices.

The **Grand24 XL Green** cartridge is 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 **Grand24 XL 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**.

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ORDERING INFORMATION

Grand24 XL Green HF Cartridge:

1.0 mm Fiber ID
SU XXX 10GRA24 8L, 1/pkg

2.0 mm Fiber ID*
SU XXX 20GRA24 8L, 1/pkg

*Available in 10K, 30K 50K, 300K - 750K and
0.1 μm - 0.45 μm

Replace XXX with:

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

SPECIFICATIONS

Cartridge Dimensions - with reducer adaptors (as shown)
6.015" (15.28 cm) x 32.65" (82.93 cm)

Reducer Adaptor Dimensions
6.0" (15.24 cm) x 2.5" (6.35 cm)

Membrane Surface Area
86.08 ft² (8 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

Fiber ID
1.0 mm and 2.0 mm

MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane:
Modified Polyethersulfone (m-PES)

Housing and Adaptors:
White Polysulfone

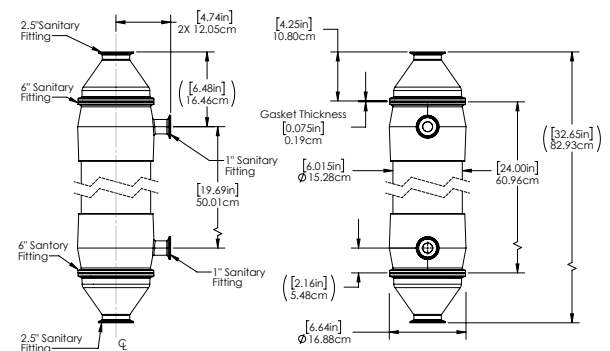
Encapsulant:
Epoxy

CONNECTIONS

Feed/Retentate
6.0" TC Standard Sanitary Fitting

Reducer Adaptors
6.0" TC Standard Sanitary Fitting x 2.5" TC
Standard Sanitary Fitting

Permeate
1.0" TC Standard Sanitary Fitting



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