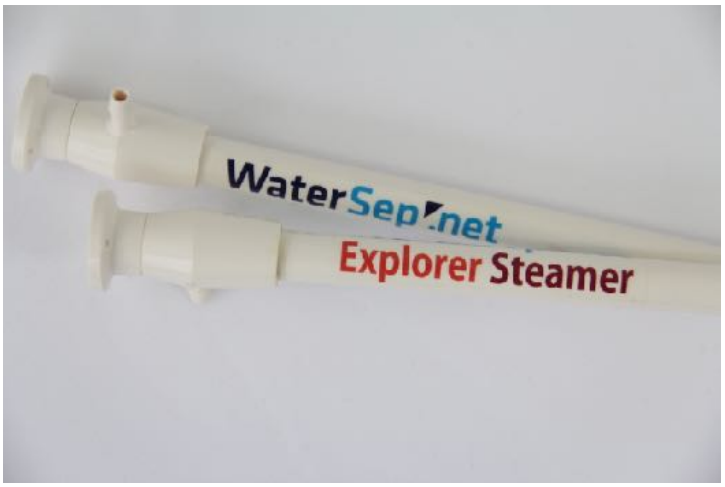
Explorer24 Steamer

Autoclavable, Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The Explorer24 Steamer is a small to laboratory-sized autoclavable, gamma irradiated, re-usable hollow fiber cartridge made with WaterSep's low binding, glycerin free modifed PES membrane (m-PES) which provides a process flux and product recovery that exceeds other crossflow devices. Explorer24 Steamer cartridges are ready to use without any pre-rinse or sanitization, or can be autoclaved as is, or in an assembly.

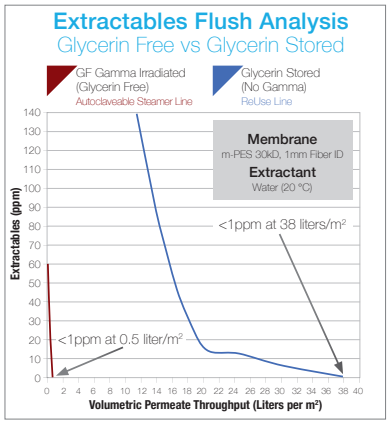
WaterSep's Steamer Line is true plug-and-play, at its best - connect, use and discard, or clean with 0.5-1.0 M NaOH and re-use. The extractable level is approximately 80x less than a glycerin conditioned membrane, see Extractables Flush Analysis. After a quick buffer conditioning the HF cartridge is ready to be used or autoclaved. For autoclaving directions, please see the Steamer Validation Guide at www.watersep.net

The Explorer Steamer hollow fiber membrane cartridges are designed for small to laboratory scale biopharmaceutical laboratory applications for volumes that range from 250 ml to 1,500 ml. The Explorer24 Steamer cartridges have a membrane surface area of 320 cm^2 , providing a typical permeate flow rate of 1.0 to 1.9 ml/hr for ultrafiltration applications and .64 to 1.3 ml/hr for microfiltration applications

The Explorer24 Steamer hollow fiber membrane cartridge systems are in most applications superior to conventional techniques, like centrifugation, depth filters, stirred cells or dialysis bags.

The Explorer12 Steamer cartridges offer true ready to use crossflow filtration that is:

- Gamma irradiated - ready to use - no rinse.
- Humectant free - 80% less extractables, see Extractables Flush Analysis.
- Free of time-consuming cleaning validation.
- At a reduced risk of cross contamination.
- Consistent, membrane performance batch to batch.
- Self-contained and requires no assembly, no expensive hardware and no membrane installation.
- Significantly less expensive than traditional cassette formats.
- Offered in the same path length as all other WaterSep 24" (60 cm) hollow fiber cartridges for exact and predictable scale up and scale down.
- Every HF cartridge is integrity tested and has an individual lot number for easy traceability.



TYPICAL APPLICATIONS

- **Cell perfusion** with an ATF system or conventional pump operated perfusion. (Bioreactor and Steamer hollow fiber assemblies can be autoclaved simultaneously.)
- Small **aseptic/sterile UF-MF applications** where autoclaving is required.
- Rapid clarification of small volumes of **cell culture, fermentation solutions and virus/vaccine suspensions.**
- Concentration and diafiltration of **monoclonal antibodies, enzymes, blood components** and other proteins.
- Preparative biopharmaceutical work.

Explorer24 Steamer

ORDERING INFORMATION

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

Explorer24 Steamer HF Cartridge

0.5 mm ID*
AU XXX 05EXP24 L6, 6/pkg
AU XXX 05EXP24 LD, 12/pkg
*Not available in 0.65 μm

1.0 mm ID
AU XXX 10EXP24 L6, 6/pkg
AU XXX 10EXP24 LD, 12/pkg

2.0 mm ID*
AU XXX 20EXP24 L6, 6/pkg
AU XXX 20EXP24 LD, 12/pkg
*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
0.38” (0.95 cm) x 23.8” (605 mm)

Membrane Surface Area
0.344 ft² (320 cm²)

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)

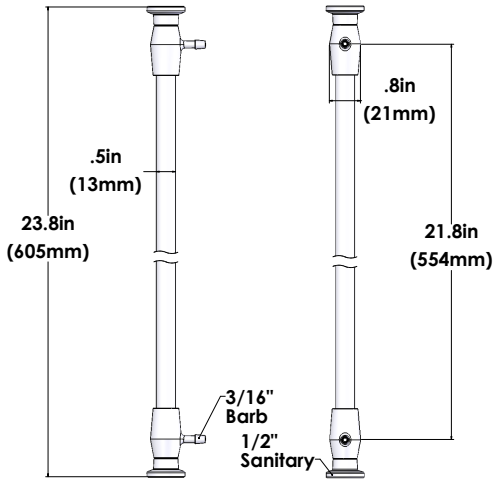
Housing:
White Polysulfone

Encapsulant:
Epoxy

CONNECTIONS

Feed/Retentate
Female Luer Fitting

Permeate
Female Luer Fitting



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

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