

Discover[™]41 Steamer

Autoclavable, Gamma Irradiated
Hollow Fiber Cartridges
Large Capacity — Superior Yield



The **Discover[™]41 Steamer** is a laboratory scale autoclavable, gamma irradiated, reusable hollow fiber cartridge, made with WaterSep's low binding, glycerin free modified polyethersulfone (m-PES) membrane. The **Discover[™]41 Steamer** is 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 reuse. 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.

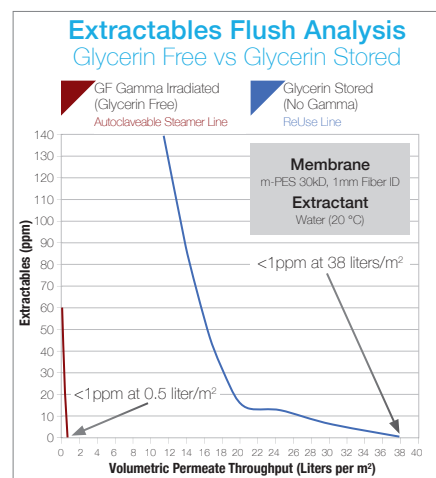
Discover[™] Steamer hollow fiber cartridge products are in most applications superior to conventional techniques, like centrifugation, depth filters, stirred cells or dialysis bags.

The **Discover[™]41 Steamer** cartridges have a membrane surface area of 193 cm², providing a typical permeate flow rate of 58 to 116 mL/hr for ultrafiltration applications and 39 to 77 mL/hr for microfiltration applications. The recommended sample volume for the **Discover[™]41 Steamer** ranges from 80 to 850 mL.

The fluid path length for the **Discover[™]41 Steamer** cartridges is similar to all other WaterSep 41" hollow fiber cartridges making scale up easy and predictable.

The **Discover[™]41 Steamer** cartridges offer true ready to use crossflow filtration that is:

- Gamma irradiated - ready to use - no rinse.
- Humectant free - 80x 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.
- 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.)
- Lab scale **aseptic/sterile UF-MF applications** where autoclaving is required.
- Rapid clarification of volumes from 80 mL to 850 mL of **cell culture, fermentation solutions and virus/vaccine suspensions**.
- Concentration and diafiltration of **monoclonal antibodies, enzymes, blood components, other proteins, and gene therapy products**.

Discover™41 Steamer

ORDERING INFORMATION

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

Discover™41 Steamer HF Cartridge

0.5 mm ID

AU XXX 05DIS41 L6, 6/pkg

AU XXX 05DIS41LD, 12/pkg

1.0 mm ID

AU XXX 10DIS41 L6, 6/pkg

AU XXX 10DIS41 LD, 12/pkg

2.0 mm ID*

AU XXX 20DIS41 L6, 6/pkg

AU XXX 20DIS41 LD, 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

0.38" (0.95 cm) x 42.38" (107.65 cm)

Membrane Surface Area

0.208 ft² (193 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:

Epoxy

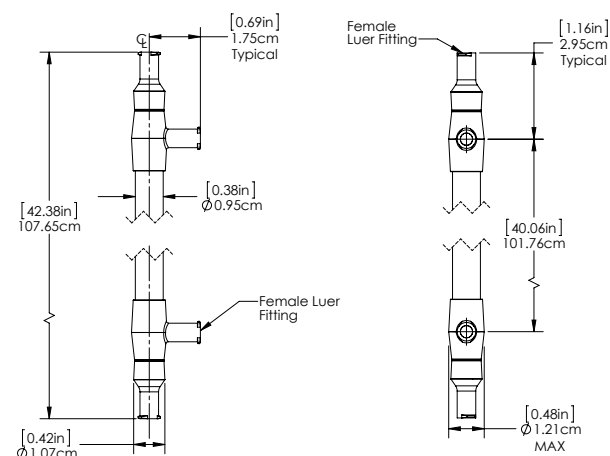
CONNECTIONS

Feed/Retentate

Female Luer Fitting

Permeate

Female Luer Fitting



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