

Discover41 Steamer

Autoclavable, Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The **Discover41 Steamer** is a small scale autoclavable, gamma irradiated, re-usable hollow fiber cartridge, made with WaterSep's low binding, glycerin free modified PES membrane. The **Discover41 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 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.

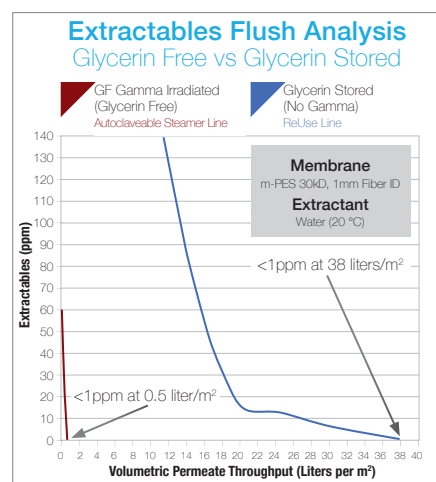
Discover Steamer hollow fiber cartridge products are in most applications superior to conventional techniques, like centrifugation, depth filters, stirred cells or dialysis bags.

The **Discover41 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 **Discover41 Steamer** is 80-850 ml.

The fluid path length for the **Discover41 Steamer** cartridges is similar to all other WaterSep 41" hollow fiber cartridges making scale up easy and predictable.

The **Discover41 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.
- 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.

Discover41 Steamer

ORDERING INFORMATION

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

Discover41 Steamer HF Cartridge

0.5 mm ID*

AU XXX 05DIS41 L6, 6/pkg

AU XXX 05DIS41LD, 12/pkg

*Not available in 0.65 μ m

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	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

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

Membrane Surface Area

0.207 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, 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

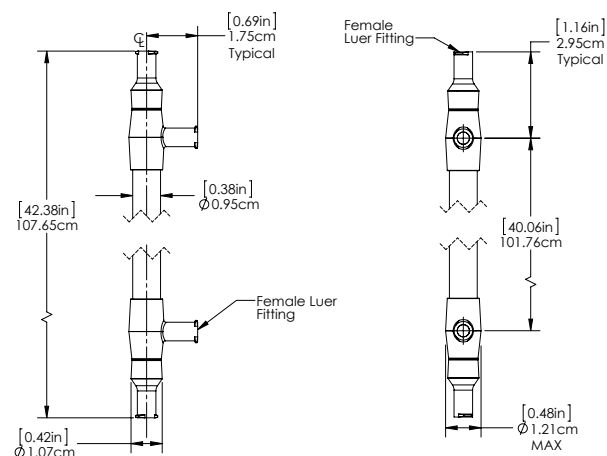
CONNECTIONS

Feed/Retentate

Female Luer Fitting

Permeate

Female Luer Fitting



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