



**AcroVac™ Filter Units**

## Description

### Fast vacuum filtration with an ergonomic design

Innovative AcroVac Filter Units are designed for vacuum filtration of aqueous solutions including cell culture media, buffers or other biological fluids. After filtration is complete, solution can be stored in the collection reservoir until needed. Units are individually bagged and gamma irradiated, and are supplied convenient and ready to use with no residuals from EtO (Ethylene Oxide) gas to harm your sensitive cell lines. Each unit is considered noncytotoxic and meets the requirements of the Elution Test, ISO 10993-5, 1999.

- Fast sample processing. Large membrane area speeds up sample processing.
- Low center of gravity improves filtration system stability and reduces risk of system tipping during the filtration process.
- Ergonomic design features curved sides molded into the reservoir, allowing easy grasping and holding.
- Convenient finger tabs on the funnel base and storage cap allow for easy removal and tightening. Finger tabs on the cap create a broad surface profile allowing convenient stacking of collection reservoirs and minimizing storage space.
- Two membrane choices: Supor® polyethersulfone (PES) membrane allows fast flow rates and is ideal for cell culture and media prep; Nylon membrane provides good chemical resistance and is suited for use with non-aqueous solutions.
- Complete system includes includes the filtration funnel with choice of membrane, vacuum port, lid, collection reservoir, and cap for storage. Solution can be stored in the collection reservoir until needed.

## Specifications

### Materials of Construction

Plastic Funnel: Polystyrene

Collection Reservoir: Copolyester

Lid, Funnel Base, Storage Cap, and Vacuum Port: Polypropylene

Funnel Base Gasket and Storage Cap Gasket: Polyethylene coated foam

Membrane: Supor® polyethersulfone (PES) or nylon, depending on product configuration

### Cytotoxicity

Systems are non-cytotoxic and meet the requirements of the Elution Test, ISO 10993-5, 1999

### Endotoxin Level

< 0.25 EU/mL utilizing Limulus Amebocyte Lysate (LAL) test

### Typical Water Flow Rate

Time to filter 500 mL of 0.2 µm filtered water at 380 mm Hg (15 in. Hg), ambient temperature:

Pore Size	PES Membrane	Nylon Membrane
0.2 µm	< 45 seconds	< 89 seconds
0.45 µm	< 28 seconds	< 51 seconds

### Bacterial Retention

Samples of 0.2 µm pore size systems retain a minimum of  $10^7$  cfu/cm<sup>2</sup> of *B. diminuta* per modified ASTM F838-83, current revision

### Recommended Operating Vacuum

380 mm Hg (15 in. Hg)

### Operating Temperature Range

-4 - 37 °C, 39 - 98 °F (Do not autoclave)

### Bottle storage

-4 to 50 °C (24 to 122 °F) Cold storage at lower temperature should be evaluated by the end user to determine suitability of the solution in the collection reservoir

### Sterilization

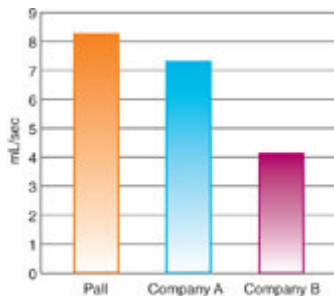
Individually bagged and sterilized by gamma irradiation

### Applications

- Designed for vacuum filtration of aqueous solutions including cell culture media, buffer, tissue culture additives, and other biological fluids.

### Performance

#### Average Flow Rate DMEM with 10% Fetal Bovine Serum



*n = minimum 5/lot per manufacturer with minimum 3 lots per manufacturer, sample volume = 500 mL, testing done at 380 mm of Hg (15 in. of Hg).*

The innovative design of the Pall Life Sciences AcroVac Filter Unit provides both performance advantages and convenience. Pall Supor® PES membrane, along with a large surface area, save time in the lab. The performance chart and table above show the benefits.

#### Average Time to Filter 500 mL DMEM with 10% Fetal Bovine Serum

(seconds ± standard deviation)

Pall	59 ± 3 seconds
Company A	67 ± 5 seconds

### Additional Information

AcroVac Filter Units

See Pall's [Products for Sterile Filtration](#).

### Ordering Information

Contact your local Pall office for information on how to order the Pall AcroVac Filter Unit in your area. Or, contact your local VWR distributor (<http://www.vwr.com>) to request the VWR Vacuum Filtration System.

### Ordering Information

#### AcroVac Filter Units with Supor Membrane

Part Number	Description	Pkg
AVFP02S	Supor membrane, 0.2 µm, sterile, 250 mL	12/pkg
AVFP02M	Supor membrane, 0.2 µm, sterile, 500 mL	12/pkg
AVFP02L	Supor membrane, 0.2 µm, sterile, 1L	12/pkg
AVFP04S	Supor membrane, 0.45 µm, sterile, 250 mL	12/pkg
AVFP04M	Supor membrane, 0.45 µm, sterile, 500 mL	12/pkg
AVFP04L	Supor membrane, 0.45 µm, sterile, 1L	12/pkg

#### AcroVac Filter Units with Nylon Membrane

Part Number	Description	Pkg
AVFN02S	Nylon membrane, 0.2 µm, sterile, 250 mL	12/pkg
AVFN02M	Nylon membrane, 0.2 µm, sterile, 500 mL	12/pkg
AVFN02L	Nylon membrane, 0.2 µm, sterile, 1L	12/pkg
AVFN04S	Nylon membrane, 0.45 µm, sterile, 250 mL	12/pkg
AVFN04M	Nylon membrane, 0.45 µm, sterile, 500 mL	12/pkg
AVFN04L	Nylon membrane, 0.45 µm, sterile, 1L	12/pkg

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### Contact Information

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This information is accurate as of the revision date indicated.