
VacuCap™ and VacuCap PF bottle-top filter devices

INNOVATIVE BOTTLE-TOP FILTERS FOR FAST, EASY VACUUM FILTRATION

Features and benefits

- Filter faster: Supor™ membrane provides high flow rates for viscous solutions.
- Match filter to sample volume with two available sizes.
- Maximize throughput of hard-to-filter solutions with VacuCap PF devices with a built-in prefilter.
- Draws directly from the mixing reservoir.
- Filters directly into the desired container, preventing contamination.
- Reduce mycoplasma with 0.1 µm pore size.
- Patented, small design accepts a variety of collection vessel sizes, reduces waste storage space.



VacuCap™ and VacuCap PF vacuum filtration devices

Applications

Media preparation for cell culture applications can be a tedious process, depending on the volume and viscosity of the material to be filtered. The sterile VacuCap bottle-top filter was engineered for this purpose. VacuCap PF devices are designed with a built-in prefilter and use the ingenuity of the standard VacuCap device with increased throughput performance for serum-containing media or other viscous solutions. Other applications including buffers requiring 0.2 µm filtration will also see the speed and throughput benefits of VacuCap PF devices when encountering high particle load in a solution.

Specifications

Materials of construction

Filter media: Supor membrane
(hydrophilic polyethersulfone)
Housing: Modified acrylic
Membrane support material: Polyester
Sinker material: PTFE
Inlet tubing: Polyvinyl chloride (PVC)
medical-grade tubing
Gasket seal material: Polyethylene

Effective filtration area

VacuCap 60 devices: 30 cm²
VacuCap 90 devices: 60 cm²

Typical throughput

(RPMI + 10% newborn calf serum)
VacuCap 60 device, 0.2 µm: 425 mL
VacuCap 90 device, 0.2 µm: 900 mL
(RPMI + 10% calf serum)
VacuCap 60 device, 0.2 µm: 800 mL
VacuCap 90 device, 0.2 µm: 2300 mL
VacuCap 60 PF device: 900 mL
VacuCap 90 PF device: 2450 mL

Water flow rate

mL/min at 25.4 cm Hg (10 in.Hg)

VacuCap 60 device:

0.1 µm: > 41
0.2 µm: > 200
0.45 µm: > 280
PF: > 200

VacuCap 90 device:

0.1 µm: > 82
0.2 µm: > 400
0.45 µm: > 560
PF: > 400

Typical hold-up volume

VacuCap 60 device: 2.2 mL
VacuCap 90 device: 4.3 mL

Maximum operating temperature

55° C (131 °F)

Recommended vacuum

38.1 cm Hg (15 in. Hg)

cytiva.com

Cytiva and the Drop logo are trademarks of Life Sciences IP Holdings Corporation or an affiliate doing business as Cytiva. Supor and VacuCap are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva. Any other trademarks are the property of their respective owners. The Danaher trademark is a proprietary mark of Danaher Corporation.

© 2025 Cytiva

For local office contact information, visit cytiva.com/contact

CY55999-17DEC2025-DF

Maximum Vacuum

63.5 cm Hg (25 in. Hg)

Endotoxin

< 0.25 EU/mL using Limulus amoebocyte lysate (LAL) test

Sterilization

Sterilized by gamma irradiation and individually bagged

Sample sterilization

VacuCap 0.1 µm device is manufactured using a membrane that has been liquid challenged with *Acholeplasma laidlawii* (ATCC 23206) under laboratory conditions at a challenge level of 5 x 10⁷ CFU/cm² EFA and showed a typical log reduction value of 1 x 10⁶.

VacuCap 0.2 µm device provides sample sterilization and retains a minimum of 10⁷ cfu/cm² of *B. diminuta* per modified ASTM F838.

VacuCap PF device is well-suited to sterilize hard-to-filter solutions. It retains a minimum of 10⁷ cfu/cm² of *B. diminuta* per modified ASTM F838.

Ordering information

VacuCap 60 bottle-top filter devices

Product code	Pore size (µm)	Diameter (mm)	Quantity
4631	0.1	60	10/pkg
4632	0.2	60	10/pkg
4634	0.45	60	10/pkg
TA4632*	0.2	60	10/pkg
4638	PF (0.8/0.2)	60	10/pkg

VacuCap 90 bottle-top filter devices

Product code	Pore size (µm)	Diameter (mm)	Quantity
4621	0.1	90	10/pkg
4622	0.2	90	10/pkg
TA4622*	0.2	90	10/pkg
4624	0.45	90	10/pkg
4628	PF (0.8/0.2)	90	10/pkg

Accessories and replacements parts

Product code	Description	Quantity
4623	Feedline accessory kit	1/pkg

*"TA" products come with individual attached tubing for each filter device. Standard products come with one piece of tubing per 10 filter devices.

