

Applications

These reusable units can be used to easily concentrate, separate, or purify samples by centrifuge. Collect the concentrated sample solution, the filtrate, or both.

Specifications

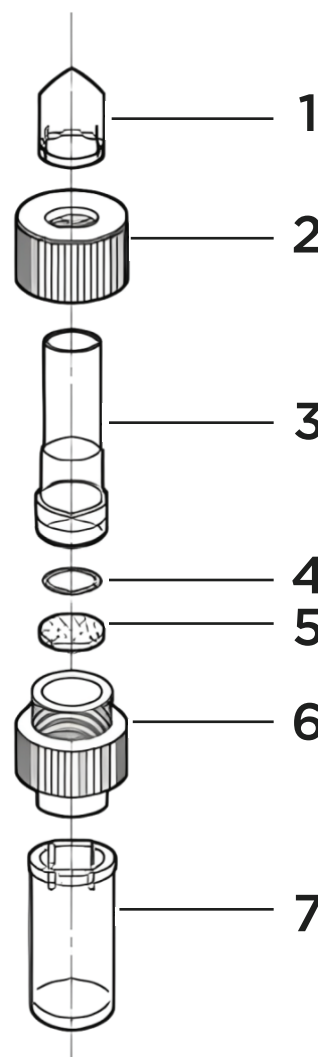
Model	UHP-13C
Filter Diameter	ø13 mm
Effective Filtration Area	0.65 cm ²
Maximum Sample Volume	2.0 mL
Minimum Sample Volume	0.15 mL
Maximum Centrifugal Force	19.6 x 10 ³ m/s ²
Total Liquid Volume	0.01 mL

Assembly

Part Name	Material	Quantity
1 Cell Cap	Polypropylene	12
2 Locking Nut	Polyacetal	1
3 Filter Cell	Acrylic	1
4 Filter Holder O-ring	Silicon	3
5 Support Screen	Polyacetal	1
6 Base Body	Polyacetal	1
7 Filtrate Cup	Polypropylene	12

Locking nut, filter cell, support screen, and base body are the main reusable parts of this unit. The O-ring, cell cap, and filtrate cup experience the most wear during use and therefore replacements are included. O-rings should be replaced within 1 year of normal usage, or more often as necessary. Cell caps and filtrate cups should be replaced within 3 years, or whenever contaminated, scratched, or otherwise damaged. It is the users' responsibility to clean the units between usage, to use the appropriate ultrafilter (not included), and to inspect the unit regularly for wear.

Optional accessories, such as centrifuge adapters and FPM O-rings, are not included. Please see the ordering information to find out more about these products.



Operation Information

Because every application is different, it is important to select the best filter, centrifuging speed, and centrifuging duration to suit your needs:

- **Selecting an ultra filter**

Begin by determining what size particles are to be removed from/concentrated in a solution, and be sure that the filter is chemically compatible with any fluids that it may be exposed to. In addition, consider flow rate and adsorption properties of the filter.

- **Selecting centrifuge speed**

Determine the flow rate of the filtration process by taking into consideration the pore size of the filter, the viscosity, volume, the particulate load of the sample and other factors. If this speed is above or below the maximum/minimum operating speeds of the filter holder, consider adjusting the duration accordingly.

- **Selecting centrifuge duration**

The length of time that the centrifugation will be necessary will primarily depend on the same factors as the centrifuge speed. (Generally, centrifuge speed and duration are inversely proportional.) Other factors such as refrigeration requirements of the sample may be important as well.

Operation Information

Please refer to the following part names and numbers when ordering.

Part Name		Material	Part No.
UHP-13C (Full Assembly)		Mixed	
1	Cell Cap	Polypropylene	UHP-13C
2	Locking Nut	Polyacetal	
3	Filter Cell	Acrylic	
4	Filter Holder O-ring	Silicon	
5	Support Screen	Polyacetal	
6	Base Body	Polyacetal	
7	Filtrate Cup	Polypropylene	

Only the full assembly and replacement O-rings may be ordered individually. One unit (full assembly) includes cell caps and filtrate cups (12 ea.) and silicon O-rings (3 ea.).

The FPM O-ring has increased resistance to a wider range of solvents than the silicon O-ring. Please see the Chemical Compatibility List or contact our technical support for more information.

Optional Accessory		Material	Part No.
FPM O-ring		FPM	UHP-13C-FPM

Please contact us for more information on our centrifuge adapter and other accessories.