Series 8000 Stirred Cells and Ultrafiltration Membranes

■ Millipore stirred cells are ideal for concentration, diafiltration and buffer exchange of macromolecule solutions including proteins, enzymes, antibodies and viruses



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Units for Effective Concentration and Salt Removal

Amicon stirred cells are an effective system for the concentration and desalting of proteins and viruses. The devices are pressurized to force fluid through the membrane while retaining and concentrating the macromolecules. Desalting is achieved by a process of diafiltration where fluids are replaced and the system is repressurized.

The stirred cell uses gentle magnetic stirring to control the concentration polarization or accumulation of macromolecules on the membrane surface. High flow rates are achieved with solutions up to 10% macrosolute concentration.

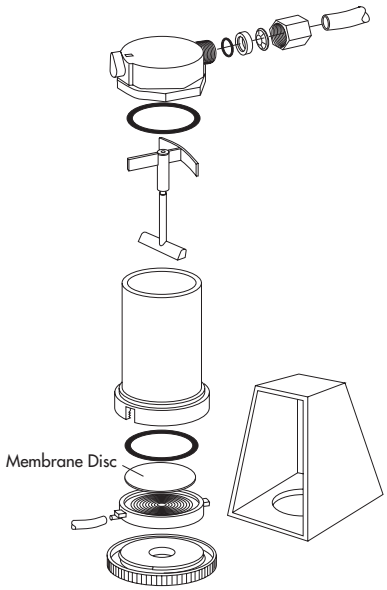
A Range of Membranes and Volume Sizes Available

Series 8000 stirred cells are available in 5 different volume sizes to accommodate solutions from 3 mL to 400 mL. When used together with the Millipore Ultrafiltration membrane of your choice, you can optimize your system to give you the results you need —high flow or high recovery. Use Ultracel™ membrane for the highest recovery of dilute solutions and Biomax or Amicon PM for faster concentration of more concentrated samples. See the selection tables inside for more details.

MILLIPORE

Stirred Cell 8000 Components and Assembly

1. Place ultrafiltration membrane at the bottom of the cell.
2. Fill cell with solution, place on a stirring table and apply nitrogen gas pressure.



Ordering Information

Stirred Cells Series 8000 — Select The Cell Capacity For Your Application

Cell Capacity	**3 mL**	**10 mL**	**50 mL**	**200 mL**	**400 mL**
Model Number	8003	8010	8050	8200	8400
Catalog Number	5125	5121	5122	5123	5124
Minimum Process Volume:	0.075 mL	1.0 mL	2.5 mL	5.0 mL	10.0 mL
Nominal Membrane Diameter:	25 mm	25 mm	43 mm	62 mm	76 mm
Effective Membrane Area:	0.9 cm	4.1 cm	13.4 cm	28.7 cm	41.8 cm
Hold-up Volume:*	0.07 mL	0.2 mL	0.5 mL	1.2 mL	1.5 mL
Maximum Operating Pressure:	75 psi (5.3 kg/cm^2)				
Relief Valve Setting:	90 psi (6.3 kg/cm^2)				

*Non-recoverable volume (below membrane surface).



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Ordering Information

Ultrafiltration Membranes

Membrane/Material	Features	NMWL	Membrane Diameter/Catalog Numbers			
			25 mm	**44.5 mm** (nom. 43)	**63.5 mm** (nom. 62)	**76 mm**
Ultracel YM						
Regenerated cellulose	High Recovery	1,000	13312	13322	13332	13342
		3,000	13412	13422	13432	13442AM
		10,000	13612	13622	13632	13642
		30,000	13712	13722	13732	13742
		100,000	14412	14422AM	14432	14442AM
Ultracel PL						
Regenerated cellulose	High Recovery	1,000	PLAC02510	PLAC04310	PLAC06210	PLAC07610
		3,000	PLBC02510	PLBC04310	PLBC06210	PLBC07610
		5,000	PLCC02510	PLCC04310	PLCC06210	PLCC07610
		10,000	PLGC02510	PLGC04310	PLGC06210	PLGC07610
		30,000	PLTK02510	PLTK04310	PLTK06210	PLTK07610
		100,000	PLHK02510	PLHK04310	PLHK06210	PLHK07610
Amicon PM						
Polyethersulfone	Fast Flow	10,000	13112	13122	13132	13142
		30,000	13212	13222	13232	13242
Biomax PB						
Polyethersulfone	Fast Flow	5,000	PBCC02510	PBCC04310	PBCC06210	PBCC07610
		10,000	PBGC02510	PBGC04310	PBGC06210	PBGC07610
		30,000	PBTK02510	PBTK04310	PBTK06210	PBTK07610
		50,000	PBQK02510	PBQK04310	PBQK06210	PBQK07610
		100,000	PBHK02510	PBHK04310	PBHK06210	PBHK07610
		300,000	PBMK02510	PBMK04310	PBMK06210	PBMK07610
		500,000	PBVK02510	PBVK04310	PBVK06210	PBVK07610

All packages contain 10 membranes.

Additional Equipment and Accessories

Description	Catalogue No.
High-Output Stirred Cells, acrylic sleeve	
115v, 2 liter	5111
230v, 2 liter	5112
Solvent-resistant Stirred Cells	
47 mm stirred cell, 75 mL	XFUF 047 01
76 mm stirred cell, 300 mL	XFUF 076 01
Liquid Reservoirs/Dispensing Pressure Vessels	
RC800 Reservoir with maximum volume of 800ml	6028
Pressure Vessel 3.785 liter (1 gallon) volume These pressure vessels provide extra fluid volume necessary for rapid dialysis (diafiltration).	XX67 00P 01
CDS10 Concentration/Dialysis Selector Selector provides instant switching from concentration to rapid dialysis (diafiltration).	6003

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Additional Equipment and Accessories (con't)

Description	Catalogue No.
MF2 Push-Button Manifold Manifold to operate multiple cells or reservoirs.	6015
TA1 Tubing Adapter Kit Kit adapts plastic tubing to 1/8" or 1/4" male or female gas fittings.	6022

Technical Literature Available

- Ultrafiltration Disc Membranes for Stirred Cells and Micropartition System (TN1000ENUS)
- Stirred Cells Series 8000 (TN067)
- Solvent-Resistant Stirred Cells (PF2007EN00)

To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office:
In the U.S. and Canada, call toll-free **1-800-MILLIPORE (1-800-645-5476)**
In the U.S., Canada and Puerto Rico, fax orders to **1-800-MILLIFX (1-800-645-5439)**
On the Internet
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E-mail: **tech_service@millipore.com**



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