

STIRRED CELLS

Normal flow stirred cells, high pressure stirred cells, and magnetic and hotplate-stirrers are designed for durability and chemical resistance. Stirred cells extend membrane life and optimize throughput. Polycarbonate and acrylic stirred cells have non-metal contact surfaces, come with a pressure relief valve, and have removable caps to add samples during filtration.

APPLICATIONS

- Desalting and concentrating proteins, enzymes, virus, and other biological samples
- Pressure filtration of fluids that contain a heavy particle burden, e.g. bacteria, silts
- Membrane analysis



	HP4750	HP4750X	POLYCARBONATE AND ACRYLIC
Membrane Size	49mm (1.93in dia)	49mm (1.93in dia)	25-150 mm (1-5.9 in)
Active Membrane Area	14.6 cm ² (2.26 in ²)	14.6 cm ² (2.26 in ²)	3.5-162 cm ² (0.5-25 in ²)
Processing Volume	Up to 300 mL	Up to 300 mL	10-2,000 mL
Hold-Up Volume	1 mL	1 mL	1.5-170 mL
Max. Pressure	1000 psig (69 bar) w/high-pressure clamps	2500 psig (172 bar)	73 psi (5 bar)
Max. Temp.	250°F (121°C) at 800 psig (55 bar)	400°F (205°C) at 2,000 psig (138 bar)	104°F (40°C)
Connections	Permeate Outlet: 1/8 in (3.2 mm) dia. 316L SS tubing; Pressure Inlet: 1/4 in (6.4 mm) FNPT	Permeate Outlet: 1/8 in (3.2 mm) dia. 316L SS tubing; Pressure Inlet: 1/4 in (6.4 mm) FNPT	Pressure Inlet: 10 mm Screw (Female)
Cell Body	316L Stainless Steel or Hastelloy	316L Stainless Steel	Polycarbonate or Acrylic
O-Rings	Buna-N (others available)	Viton or PTFE	Silicone
Gasket	Buna-N (others available)	Viton or PTFE	N/A
Stir Bar	PTFE	PTFE	Polysulfone (PSF, not end cap but top cap)
Cell Diameter	5.1 cm (2 in)	7 cm (2.75 in)	6.1-19.5 cm (2.4-7.7 in)
Cell Height	19.9 cm (7.8 in)	22.4 cm (10 in)	13.3-26.5 cm (5.2-10.4 in)
Cell Width	14.6 cm (5.7 in) w/ high-pressure couplings	10.8 cm (4.25 in)	Various