

Empore SPE Glassware and Manifolds



- Saves time and money
- Sample contacts glass and PTFE

Get the most out of using extraction disks with our line of SPE Glassware and Manifolds. They have been specially designed for use with solid phase extraction disks to give you the highest possible recoveries of extracted analytes from your drinking water, surface water and waste water samples. Using the SPE glassware with extraction disks saves you time, saves you money and helps save our environment.

The SPE funnels have a sharp edge on the bottom inside diameter that, combined with the stronger spring in our aluminum clamps, minimizes any horizontal capillary action of the sample and solvent into the disk. SPE manifolds are manufactured from corrosion resistant stainless steel. Valves have stainless steel bodies with PTFE plugs.

Extracted samples can be collected directly into K-D concentrator tubes, EPA water analysis vials, sample vials and test tubes. PTFE-coated stainless steel support screen reduces the possibility of sample-to-sample cross contamination compared to the traditional glass frit. The PTFE coating also protects the support screen from corrosion caused by acid preserved samples.

The SPE support bases have a specially designed internal surface that reduces dead volume and minimizes holdback of the extracted analyte.

All SPE Manifolds are supplied with three-way valves that allow the venting to atmosphere of each station without affecting the vacuum in the rest of the system.

Water samples and extracted analytes contact only Type I, Class A borosilicate glass and PTFE, eliminating extractable contamination sources.

SPE manifold and glassware sets are available for both 47mm and 90mm diameter extraction disks.

SPE Manifold Set

Cat. No.	Description	Price
7100-1047	One 47mm glassware set, one 1-place Manifold	
7100-3047	Three 47mm glassware sets, one 3-place manifold	
7100-6047	Six 47mm glassware sets, one 6-place manifold	
7100-1090	One 90mm glassware sets, one 1-place manifold	
7100-3090	Three 90mm glassware sets, one 3-place manifold	

Replacement Components

7110-0047	SPE Glassware set, 47mm (funnel, support base, support Screen, PTFE gaskets and clamp)
7110-0090	SPE Glassware set, 90mm (funnel, support base & screen, and clamp)
7111-0347	SPE Funnel, 47mm, 300mL capacity
7111-1090	SPE Funnel, 90mm, 1,000mL capacity
7112-0047	SPE Support base, 47mm
7112-0090	SPE Support base, 90mm
7113-0047	SPE Support screen, 47mm, PTFE-coated SS
7113-0097	SPE Support screen, 90mm PTFE-coated SS
7114-0047	Anodized Aluminum clamp, 47mm
7114-0090	Anodized Aluminum clamp, 90mm
5381-0000	PTFE Gasket, 47mm, 25/pk (5 included with glassware set)
7120-1000	SPE Stainless Steel manifold, 1-place
7120-3000	SPE Stainless Steel manifold, 3-place
7120-6000	SPE Stainless Steel manifold, 6-place

Accessories

7111-1047	SPE Funnel, 47mm, 1,000mL capacity
7113-4247	SPE Support screen, 47mm, Kel-F®
7113-4290	SPE Support screen, 90mm, Kel-F®
7601-4305	PTFE Joint sleeves, for T 40/35 joint, 6/package
5380-0000	Glass cap for T 40/35 inner joint of S manifolds
2390-0115	Diaphragm vacuum pump, 110/115 VAC, 50/60 Hz
EM-FA400	Filter Aid-Empore glass beads, 1.5 kg bottle

Empore Filter Aid 400-Glass Beads

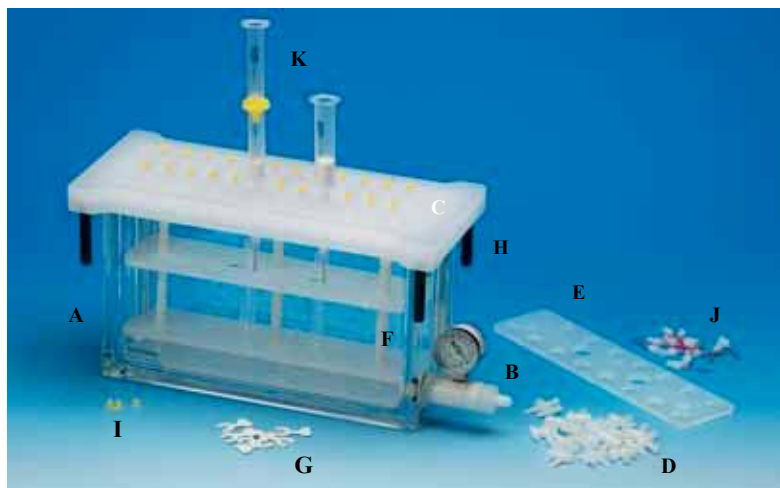


Empore Filter Aid 400 is comprised of 40 micron mean particle size, non porous, inert glass beads which are designed to act as a depth filtration material when placed on top of Empore Extraction Disks.

Approximately one centimeter of Filter Aid 400 successfully inhibits the migration of suspended solids to the surface of the disk, dramatically reducing sample extraction time. In addition, the improved flow characteristics have been shown to

significantly improve both extraction efficiency and reproducibility of resultant data.

Vacuum Manifold and Accessories



Vacuum Manifold Included Components

- A. Glass chamber
- B. Vacuum valve and gauge
- C. Polypropylene lid
- D. Stopcock valves
- E. Collection rack plates
- F. Support posts for collection racks
- G. Retaining clips for collection racks
- H. Lid legs
- I. Manifold inlet caps
- J. Polypropylene needles
- K. SPE reservoirs (sold separately)

Manifold systems come complete with the components listed above.

Stainless Steel or Teflon® needles are available separately.

The 12 Port manifold also includes a waste container.

- Glass chamber for visual monitoring
- Accepts standard male luer devices



12 Port Manifold

Cat. No.	Description	Qty.
2100A-00	12 Port vacuum manifold	1

Replacement Parts for 12 Port Manifolds

2120A-01	Lid, gaskets, and 12 stopcocks	1
2132-12	Glass chamber	1
2123-04	Vacuum gauge, valve, and glass chamber	1
2125A-18	Collection rack, 12-port size*	1
2121A-12	Gaskets, 12-port size	2
2131-12	One-way stopcocks	12
2100A-33	Waste container	2

* 12-Port collection rack consists of 3 support posts, bottom plate, 13 and 16mm plates, autosampler vial plate, volumetric plate, and 12 retaining clips.

16 Port Manifold

2100-16	16 Port vacuum manifold	1
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Replacement Parts for 16 Port Manifolds

2102-16	Lid, gaskets, and 16 stopcocks	1
2103-16	Vacuum gauge, valve, and glass chamber	1
2104-16	Collection rack, 16-port size**	1
2121A-12	Gaskets, 16- and 24-port size	2

24 Port Manifold

2100-24	24 Port vacuum manifold	1
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Replacement Parts for 24 Port Manifolds

2102-24	Lid, gaskets, and 16 stopcocks	1
2103-24	Vacuum gauge, valve, and glass chamber	1
2104-24	Collection rack, 24-port size**	1
2107-24	Gaskets, 16- and 24-port size	2

** 16- and 24- Port collection rack consists of 3 support posts, bottom plate, dimple plate, 13- and 16mm plates and 12 retaining clips.

Replacement Parts for All Size Manifolds



Manifolds come complete with all necessary gauges and accessories. Individual replacement parts may be sold separately.

Cat. No.	Description	Qty.
2122-03	Vacuum gauge and valve	1
2129-12	Retaining clips for collection racks	12
2120-02	Female luer inlet, polypropylene	2
2121-20	Male luer outlet, polypropylene	2

Manifold Needles



Teflon® needles are disposable, fit many different manifold types, and eliminate cross contamination by extending into the collection tube.

They also provide a complete

Teflon® fluid path for samples to

virtually eliminate extractables. Available plain or with a valve. Stainless Steel and polypropylene needles are also available.

Cat. No.	Description	Qty.
4124-10	Teflon® needles	100
4115-25	Valved Teflon® needles	25
2124-00	Stainless Steel needles	12
2124-12	Polypropylene needles	12
2109-24	Polypropylene needles	24

Drying Attachments



Use these special drying lids to direct a gas flow into collection tubes to dry eluants. Barb is 1/4".

Cat. No.	Description	Qty.
2121-00	12-Port drying attachment	1
2121-17	16-Port drying attachment	1
2121-24	24-Port drying attachment	1

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