

Swinnex Starter Kit

Complies with MDHS 83

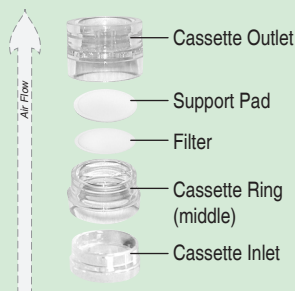
This kit includes 10 of the 2-section, 13-mm Swinnex holders (Cat. No. 225-32), 100 filters, and 10 adapter posts for calibration.

Cat. No. 225-8050K

Tech Tips

Guidelines for Selecting Filter Support Material

- **Cellulose supports** provide a smooth surface and allow uniform airflow distribution.
- **Porous plastic supports** are impervious to most solvents.
- **Stainless steel screens** are used when cellulose or plastic will interfere with analysis.



Filter Holders

Diameter (mm)	Holder Description	Cat. No.	Qty.
13	2-section, polypropylene, Swinnex	225-32	10
	Replacement silicone gaskets	225-3201	100
13	2-section, stainless steel, Swinnex	225-33	ea
25	2-section, in-line, Delrin (acetal resin) with stainless steel support screen	225-1109	6
25	Open face, Delrin (acetal resin) with stainless steel support screen	225-1107	6
25 & 37	Filter Cassette Holder, <i>see page 90 for details</i>	225-1	ea
47	Aluminum, in-line, with stainless steel support screen	225-4701	ea
47	Polycarbonate, in-line, with support	225-4702	ea
47	Stainless steel, in-line, with stainless steel support screen	225-4703	ea
47	Aluminum, open face	225-4704	ea
	Plastic cap, protects after sampling	225-4705	ea
47	Teflon (PFA) with 1/4-inch ferrule nuts and wrench set. <i>For optimum seal, SKC recommends Teflon (PTFE) filters. Alternative filter materials may result in some leakage.</i>	225-1712	ea
47	Polypropylene, for vacuum and pressure air sampling applications, pressures up to 100 psi	225-1147	ea



Teflon, 47 mm
Cat. No. 225-1712



Polypropylene, 13 mm
Cat. No. 225-32



In-line Delrin, 25 mm
Cat. No. 225-1109



Open-face Delrin, 25 mm
Cat. No. 225-1107



In-line
Aluminum, 47 mm
Cat. No. 225-4701



In-line
Polycarbonate, 47 mm
Cat. No. 225-4702



In-line
Stainless Steel, 47 mm
Cat. No. 225-4703



Open-face
Aluminum, 47 mm
Cat. Nos. 225-4704 &
225-4705

Supports for Filter Sampling

Some sampling procedures require support disks. Cellulose support pads feature a smooth surface and uniform airflow distribution. Porous plastic pads are impervious to most solvents. Use stainless steel screens when cellulose or plastic will interfere with analysis.

Diameter (mm)	Support Material	Cat. No.	Qty.
25	Cellulose pad	225-28	100
25	Stainless steel screen, wide mesh	225-2625	ea
25	Polypropylene pad	225-2901	100
37	Cellulose pad	225-27	100
		225-2700	500
37	Cellulose spacer ring (NIOSH 5506 and 5515)	225-23	25
37	Polypropylene pad	225-2902	100
37	Stainless steel screen, wide mesh	225-26	ea
37	Stainless steel screen, fine mesh	225-2637	ea
47	Cellulose pad	225-2903	100
47	Stainless steel screen, wide mesh	225-2647	2

VersaTrap

The Better Way to Sample for Molds and Other Particles

- ▶ **High collection efficiency from 5 to 30 L/min**
 - VersaTrap captures *Aspergillus* and *Penicillium* mold spores as small as 1.5 µm at 30 L/min
- ▶ **A standard collection method for mold spore count and genus identification**
- ▶ **Easy analysis**
 - Positioning notches and flat slide edges
 - Well-defined rectangular footprint
- ▶ **Optically clear slide adhesive**
- ▶ **SureSeal certified leak-free cassettes**
- ▶ **Unique serial number on each cassette for sample traceability**



High Flows + Low cut-points + No Particle Bounce =
High Collection Efficiency

Flow Rate (L/min)	VersaTrap 50% Cut-point (µm)
30.0	1.5
25.0	1.7
20.0	1.9
15.0	2.3
10.0	2.8
5.0	3.9

VersaTrap sampling is as easy as selecting the flow rate that will target the desired particle size (*see table*), calibrating a pump to the flow rate, and collecting the sample.

Description	Cat. No.	Qty.
VersaTrap Spore Trap Cassettes, 37 mm, limited shelf-life	225-9820	10
	225-9821	50

QuickTake Pumps
Ideal for Spore Traps
See pages 34-35.



More Information
See Tech Note 1649, "Performance of the VersaTrap Spore Trap Cassette."
www.skcinc.com

Diesel Particulate Matter (DPM) Cassettes For Elemental Carbon Analysis by NIOSH 5040

- ▶ **Screen out particles ≥ 1.0 µm and collect sub-micron particles on a heat-treated quartz filter**
- ▶ **Optimum DPM collection efficiency at 1.7 or 2.0 L/min**
- ▶ **Sample integrity assured**
 - Heat-treated quartz filters assure low carbon background
 - Single-use cassettes are tamper-evident sealed



The SKC Diesel Particulate Matter (DPM) Cassette differentiates DPM from other respirable dust (such as coal dust) based on particle size. Each streamlined plastic cassette contains a precision-jeweled impactor, impaction substrate, and two heat-treated quartz filters. Particles ≥ 1.0 micron are screened out, while sub-micron particles collect on the filter. Samples are analyzed for organic and elemental carbon using a highly sensitive evolved gas analysis (EGA) technique with thermal-optical analyzer as specified in NIOSH Method 5040.

Diameter (mm)	Filter Specifications	Cassette Description	Notes	Cat. No.	Qty.
37	2 heat-treated quartz*	1-pc with precision-jeweled impactor, tamper-evident sealed	NIOSH 5040 analysis	225-317*	10

* Limited shelf-life

See page 84 for DPM cassettes without impactor.

ABOUT

Elemental Carbon — Preferred Option for Sampling DPM

Elemental carbon (EC) is at the core of diesel exhaust and carries suspected mutagens and carcinogens. EC is the most sensitive and specific marker for diesel exhaust and is easily detected by thermal-optical methods. EC analysis is more specific and sensitive than gravimetric analysis. As occupational exposure limits (OELs) decrease, the need to use EC as a marker will increase.

Tech Tips

Use a GS-1 Cyclone (p. 94) and Filter Cassette Holder (p. 90) when sampling in areas where carbonate or large particles may interfere with the impactor in the DPM Cassette.