

ENVI-Disk™ Extraction Disks and Accessories for Solid Phase Extraction

Product Specification

ENVI-18 DSK and ENVI-8 DSK Disks

- Faster flow rates
- Less clogging
- Less expensive than Teflon® disks

ENVI™-18 DSK disks (with C18 bonded silica), and ENVI-8 DSK disks (with C8) both have a porous, glass fiber matrix containing the surface-modified silica. They can be used for extracting organic contaminants, including PAHs, PCBs, pesticides, herbicides, and phthalates, from large volumes of water (one liter or more). The glass fiber matrix provides a high flow rate with less chance of clogging from particles.

The ENVI-Disk™ matrix is thick and rigid, trapping particles at various levels throughout the filter. By comparison, disks with a Teflon membrane are thinner, less rigid, and wrinkle easily. They tend to plug more quickly if particles are present in the sample.

ENVI-18 DSK and ENVI-8 DSK disks meet specifications for the following US EPA methods:

506	Phthalates
525.1	Semivolatile organics
549.1	Paraquat and diquat
550.1	Polycyclic aromatic hydrocarbons

ENVI-8 DSK disks are available in a 47mm diameter size. ENVI-18 DSK disks are available in both 47mm and 90mm diameters.



994-0256

Ordering Information:

Description	Cat. No.
ENVI-18 DSK SPE Disks (C18 bonded phase) 90mm, pk. of 12	57170-U
47mm, pk. of 24	57171
ENVI-8 DSK SPE Disks (C8 bonded phase) 47mm, pk. of 24	57172

ENVI-Disk Clamp



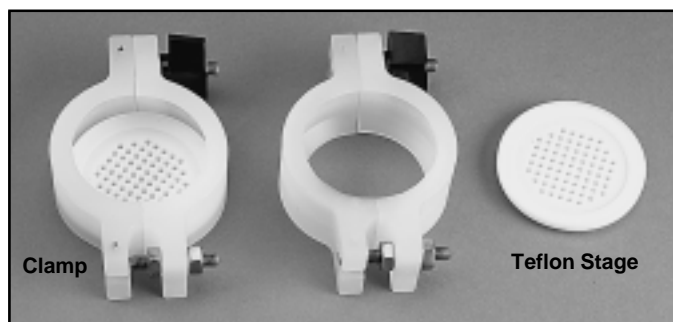
996-0280

The ENVI-Disk Clamp is for use with standard glass filtration apparatus (47mm or 90mm) to create a better seal for eliminating leaks when using SPE extraction disks or filtering HPLC mobile phase solvents.

This easy-to-use clamping system should be used only with a filtration glassware funnel base that has a removable filtration stage, such as Supelco Mobile Phase Filtration Apparatus 1 or 2, or our funnel base. It cannot be used with a permanent fritted glass filtration stage or stainless steel holder screen.

Ordering Information:

Description	Cat. No.
47mm Filter Clamp Assembly	57260-U
Replacement Teflon Stage, pk. of 1	57261
90mm Filter Clamp Assembly	57262
Replacement Teflon Stage, pk. of 1	57263
Supelco™ Mobile Phase Filtration Apparatus Apparatus 1	58061
Apparatus 2	58062-U
Funnel Base and Stopper for Apparatus 1	58064
Tapered Funnel Base for Apparatus 2	58068



996-0059

ENVI-Disk Holder



995-0117

The ENVI-Disk Holder is designed to be used with 47mm ENVI-Disk solid phase extraction disks. The unit consists of a 1-liter sample funnel, a threaded screw clamp, a Teflon disk support, and a Teflon filter base/adaptor with a vacuum attachment fitting. The filter base fits onto any standard 1-liter flask that has a 40/35 tapered ground glass neck. A 25 x 250mm test tube is used with the flask to collect disk eluates.

The unique design of the holder allows each disk to be installed and held firmly in place without wrinkling or tearing. The screw clamp provides uniform pressure on the disk and the sealing surfaces to prevent troublesome leaks. Many competitive holders use a spring-loaded clamp to keep the disks in place and cannot offer the sealing integrity of the ENVI-Disk Holder.

To use the holder, place the base/adaptor on top of the 1-liter flask and center an ENVI-Disk on the disk support in the base. Loosen the screw clamp to allow the funnel to be installed, and then tightened, to secure the unit together. Attach the base to a vacuum source, and the ENVI-Disk is ready to use.

Ordering Information:

Description	Cat. No.
ENVI-Disk Holder	57173
Flask, 1-liter, 40/35 fitting	Z290610-1EA
Collection Tube, 25 x 250mm	57175

ENVI-Disk Holder Manifold

The ENVI-Disk Holder Manifold holds one to six ENVI-Disk Holders with flasks and allows up to six 1-liter samples to be extracted simultaneously. The unit includes a sturdy polymer base with stations for six 1-liter flasks, six flow control valves, a needle valve, a vacuum gauge, and vacuum tubing. A 1-liter glass bottle in the manifold acts as a secondary trap to protect the vacuum source in the event of an overflow from one of the filtering flasks.

Each of the six stations can be individually controlled using the flow control valve. These valves vent the flask to the atmosphere when moved from the open to the closed position. The flow rate is controlled by the needle valve on the manifold.

Ordering Information:

Description	Cat. No.
ENVI-Disk Holder Manifold	57174



994-0520

Trademarks

ENVI, ENVI-Disk, Supelco — Sigma-Aldrich Co.
Teflon — E.I. du Pont de Nemours & Co., Inc.

Contact our Technical Service Department (phone 800-359-3041 or 814-359-3041, FAX 800-359-3044 or 814-359-5468) for expert answers to your questions.

For more information, or current prices, contact your nearest Supelco subsidiary listed below. To obtain further contact information, visit our website (www.sigma-aldrich.com), see the Supelco catalog, or contact Supelco, Bellefonte, PA 16823-0048 USA.

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