

## SKC Passive Samplers for Organic Vapors

### Easy, Reliable ppm Sampling, MDHS 88 Compliant

Choose reliable SKC 575 Series Passive Samplers for the superior collection of organic vapors. SKC has scientifically validated the sampling rates and other critical sampling parameters of its 575 Series Passive Samplers to meet OSHA/ASTM/ANSI requirements. SKC 575 Series Passive Samplers have been identified as a viable alternative to active sampling in five OSHA methods.

#### SKC 575 Series Passive Samplers

##### Superior Sampling Flexibility

SKC offers complete sampling flexibility with the 575 Series Passive Samplers. Validated for short-term, 8-hour, and 24-hour sampling, SKC has a passive sampler to meet your sampling application.

##### • Short-term (STEL) Sampling

Monitors short-term tasks for worker exposure to ppm-level organic vapors.

##### • 8-hour Full-shift Sampling

Sample over an 8-hour work shift for TWA measurements of ppm-level organic vapors.

##### • Indoor Air Monitoring for 24 Hours

SKC 575 Series Passive Samplers provide easy, accurate, and reliable indoor air monitoring for 24 hours. SKC has validated the sampling rate and other critical parameters of 575 Series samplers for 24-hour indoor air sampling. Use SKC 575 Series Passive Samplers to detect specific VOCs in the 10 to 200 ppb concentration range in indoor air. Compounds validated at the time of publication include acetone, hexane, benzene, toluene, 1,1,1-trichloroethane, and o-, m-, and p-xylene.

##### ► Highly accurate and reliable

- Proven performers in the laboratory and in the field

##### ► Save time and money!

- Collect most compounds with one sampler for up to a full 8-hour workshift
- No pump or training required
- Only one setup visit to the worksite and one analysis

##### ► Variety of samplers available

- Only SKC offers a choice of sorbents to better target specific contaminants and eliminate reverse diffusion

##### ► Superior collection efficiency

- SKC sorbents have a larger surface area to provide higher capacities

##### ► Sampling flexibility

- Validated for short-term and 8-hour sampling as well as 24-hour indoor air sampling

##### ► Peace of mind

- Extensively tested and documented results for data that will stand up in court
- Meet requirements of ASTM D6246-98 and ANSI 104-1998 standards
- Validated to meet OSHA/NIOSH requirements
- Complies with MDHS 88 and MDHS 80
- Specified in U.S. OSHA Methods 111, 1001, 1002, 1004, and 1005



#### Passive Sampler Ordering

Passive samplers include single-section sorbent tubes for desorption efficiency studies. *See the SKC Passive Sampling Guide on pages 66-75 for selecting a passive sampler by chemical hazard and for compound-specific sampling rates.*

Passive Sampler for:	Sorbent	Pkg. of 5	Pkg. of 25	Pkg. of 100	Pkg. of 500
		Cat. No.	Cat. No.	Cat. No.	Cat. No.
Organic vapors	Charcoal, 350 mg	575-001	575-001A	575-001B	575-001C
Organic vapors	Anasorb 747, 500 mg	575-002	575-002A	575-002B	575-002C
Organic vapors	Anasorb 727*, 300 mg	575-003	—	—	—
Ethylene oxide	Anasorb 747 coated with hydrobromic acid, 500 mg	575-005	575-005A	—	575-005C

\* Comparable to Chromosorb 106

SKC 575 Series  
Passive Samplers have  
been validated based on  
rigorous NIOSH and  
ANSI testing protocols.  
See [www.skcin.com/  
reports.asp](http://www.skcin.com/reports.asp) for available  
reports.

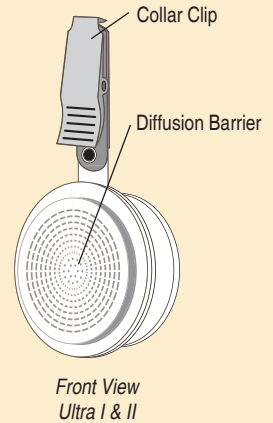
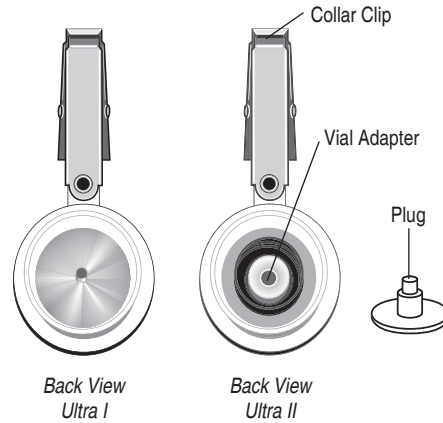
See the SKC Passive Sampling Guide on pages 66 to 75 to select a passive sampler by hazard and for compound-specific sampling rates.

## ULTRA Passive Samplers

### The Passive Alternative for ppb- and ppt-level VOCs

- **ULTRA** low ppb to ppt detection of VOCs in ambient or indoor air
- **ULTRA** reliable sampling for EPA TO-17
- **ULTRA** passive convenience, thermal desorption efficiency

Patented\* SKC Ultra® Passive Samplers provide reliable sampling of low-level volatile organic compounds (VOCs) without the use of a pump. Target chemicals diffuse from the atmosphere into the sampler at a fixed rate. Analysis is by highly sensitive thermal desorption with gas chromatography (GC).

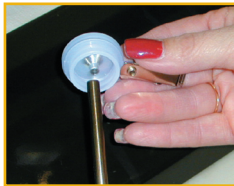


## Two Convenient Configurations

Ultra convenience of a passive sampler with the Ultra sensitivity of thermal desorption

### Ultra I — Prefilled for ppb-level Detection

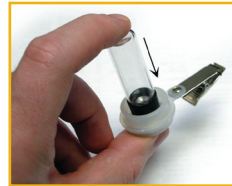
Ultra I samplers, prefilled with cleaned/purged sorbent, permit easy and direct transfer of sorbent to a thermal desorption tube in the laboratory.



See SKC Update to EPA TO-17 at [www.skinc.com](http://www.skinc.com) for recommended sorbent for target compounds.

### Ultra II — User-filled for ppt-level Detection

The user transfers cleaned/purged sorbent directly into and out of a badge housing. Before and after sampling, sorbent is stored in glass vials with Teflon caps to maintain low background, longer shelf-life, and to facilitate shipping to the laboratory for analysis.



For each sample, purchase an empty badge housing and separate vial of sorbent. See SKC Update to EPA TO-17 at [www.skinc.com](http://www.skinc.com) for recommended sorbent for target compounds.

Description	Cat. No.	Qty.
<b>Ultra I Passive Sampler prefilled with:</b>		
Anasorb GCB1†‡, 370 mg	590-102†	5
Carbopack X†, 500 mg	590-103†	5
Chromosorb 106†§, 285 mg	590-200†§	5
Tenax TA†, 265 mg	590-100†	5

\* U.S. Patent No. 6,607,581

† Use within 30 days; storage at < 39.2 F (4 C) recommended.

‡ Comparable to Carbopack B

§ Additional sampling rates available at [www.osha.gov](http://www.osha.gov), search on "Ultra."

Description	Cat. No.
<b>Ultra II Sampler</b> , empty housing only, packaged in reusable pouch Requires sorbent vial listed below	590-259
<b>Sorbent Vial</b>	
<b>Cleaned and purged (&lt; 20 ng typical background levels)</b>	
Anasorb GCB1 Sorbent in vial†‡, 370 mg	590-262†‡
Carbopack X Sorbent in vial†, 500 mg	590-265†
Chromosorb 106 Sorbent in vial†§, 285 mg	590-261†§
Tenax TA Sorbent in vial†, 265 mg	590-260†

### Ultra Samplers for EPA Method TO-17

EPA TO-17 for VOCs specifies sorbent tube sampling following by thermal desorption and gas chromatography analysis. SKC Ultra Samplers use the same sorbents and analysis to provide limits of detection in the low ppb to ppt range for some chemicals. See SKC Update to EPA Method TO-17 at [www.skinc.com/instructions/TO-17.pdf](http://www.skinc.com/instructions/TO-17.pdf).

### Ultra Samplers for OSHA Sampling

OSHA Salt Lake Technical Center has shown Ultra Samplers with Chromosorb 106 to be effective in sampling a mixture containing common solvent analytes. It is anticipated that Ultra Samplers could be used to develop a new fully validated OSHA method with its best application in low-level, long-term workplace sampling for designated chemicals. See OSHA Ultra Study at [www.osha.gov](http://www.osha.gov). Search on "Ultra."

Analysis Accessories	Cat. No.	Qty.
<b>Transfer Funnel for Ultra II</b> , aluminum, facilitates transfer of sorbent from vial to 0.25-in OD thermal desorption tubes	590-264	ea
<b>Thermal Desorption Tube for Ultra I and II</b> , Perkin Elmer, 0.25 x 3.5 inch, includes screens and end caps	P226530	ea