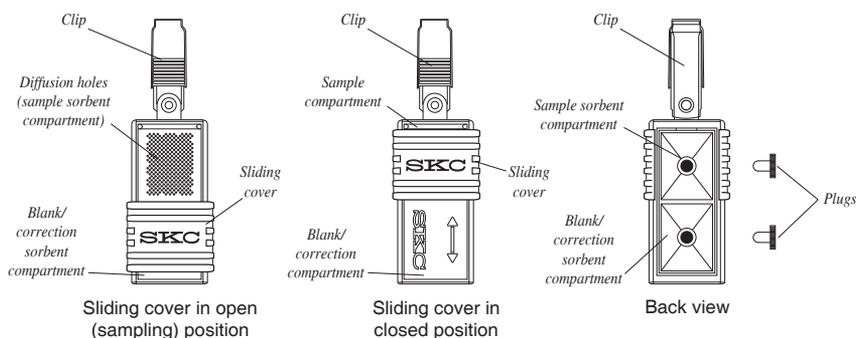




# Operating Instructions

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## ULTRA Passive Samplers Cat. Nos. 690-101, -103, -104, and -106



### Applications

SKC patented\* ULTRA® Passive Samplers provide for low ppb to ppt detection of organic vapors in ambient and indoor air.

### Performance Profile

**Sampling Rates:** Go to the SKC Passive Sampling Guide at [www.skcinc.com/catalog/passive-guide.php](http://www.skcinc.com/catalog/passive-guide.php).

**Analysis:** Thermal desorption; gas chromatography  
See *Analysis Instructions* at [www.skcinc.com/instructions/40125.pdf](http://www.skcinc.com/instructions/40125.pdf).

**Shelf-life:** 30 days from date of manufacture. Store at  $\leq 39.2$  F (4 C).

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

# Sampling

1. Open pouch. Remove sampler.
  - a. Do not discard pouch.
  - b. Store pouch in a clean, organic solvent-free environment.
2. Record the following:
  - a. **Sample ID** on pouch and sampler I.D. label
  - b. **Sampling location** on pouch
  - c. **Date sample taken** on pouch

**!** *Do **not** use Sharpie® markers or equivalent to mark label or pouch as these can off-gas VOCs.*

3. Clip sampler(s) in appropriate location.
  - a. **Indoors:** Clip sampler(s) to stand accessory (Cat. No. 690-302) and locate at appropriate height.
  - b. **Outdoors:** Clip sampler(s) inside shelter (open on two ends and bottom to allow air to flow freely). Hang shelter securely at the appropriate height.

**!** *Ensure diffusion holes in sampler are not obstructed in any way.*

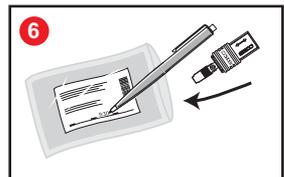
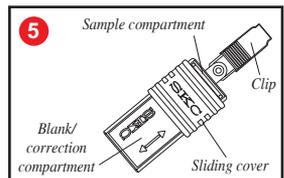
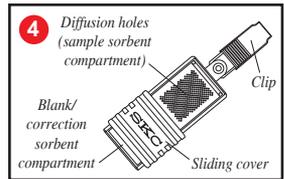
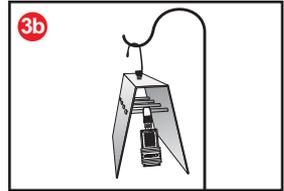
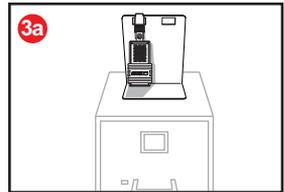
4. Start sampling: Slide sampler cover to open position (diffusion holes visible). Write sample start time on pouch label.

5. Stop sampling: Slide sampler cover to closed position (arrow and SKC visible). Write sample stop time on pouch label.

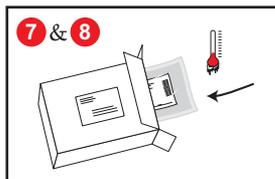
**Important:** Measure and record ambient temperature and atmospheric pressure. Include in information sent to the laboratory.

6. Place sampler in its resealable pouch **immediately** after sampling.

**!** *Ensure sample ID on sampler matches sample ID on pouch.*



7. Seal pouch(es). Place pouch(es) in container with cool pack.
8. Use expedited shipping to send sample(s), pertinent information, and Chain of Custody form(s) to a laboratory for analysis.



## Storage

**Before Sampling:** Up to 30 days at  $\leq 39.2$  F (4 C) in a clean, organic solvent-free environment

**After Sampling:** 21 days at  $\leq 39.2$  F (4 C) in a clean, organic solvent-free environment

## Ordering

ULTRA Passive Samplers, pk/5, prefilled with:	Cat. No.
<b>Anasorb GCB1</b> , <sup>#</sup> 370 mg in each compartment	<b>690-101</b>
<b>Chromosorb 106</b> , <sup>#</sup> 285 mg in each compartment	<b>690-103</b>
<b>Tenax TA</b> , <sup>#</sup> 253 mg in each compartment	<b>690-104</b>
<b>Carbopack X</b> , 400 mg in each compartment	<b>690-106</b>

<sup>#</sup> Limited shelf-life; see Storage above

<sup>‡</sup> Comparable to Carbopack B

<sup>¥</sup> Go to [www.osha.gov](http://www.osha.gov) and search on ULTRA for additional information on sampling rates for Chromosorb 106.

### Sampling Accessories

<b>Stand for Indoor Sampling</b>	<b>690-302</b>
<b>Shelter for Outdoor Sampling</b>	<b>690-303</b>

### Analysis Accessory

<b>Thermal Desorption Tube</b> , Perkin Elmer, 0.25-inch OD x 3.5-inch length, includes screens and end caps, ea	<b>P226530</b>
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## SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skcinc.com/warranty>.

