

# Vac-U-Chamber

Eliminates Pump Contamination During Bag Sampling



The SKC Vac-U-Chamber is a rigid air sample box that allows sample bags to be filled directly by using negative pressure provided by most personal air sample pumps. Because the sample does not pass directly through the pump, both pump and sample contamination are eliminated. All surfaces in contact with the sample are constructed of inert materials. The Vac-U-Chamber's rigid walls will not collapse under vacuum conditions.

## Applications

- U.S. EPA Method 18 (VOCs — industrial sources)
- U.S. EPA 0040 (POHCs — stationary sources)
- Soil gas/vapor sampling
  - U.S. EPA SOP 2042
- Indoor air remediation system monitoring petroleum constituents (U.S. EPA SOPs 2102, 2103, and 2104)
- Groundwater testing
- Stack sampling
- Ventilation studies
- Hazmat testing

### ► Allows direct filling of air sample bags

- Uses negative pressure provided by most personal air sample pumps
- Designed to contain SKC sample bags

### ► Protects sample and pump from contamination

- Sample does not pass through the pump
- Sample contacts only inert tubing and bag

### ► Rugged and airtight construction

- Will not collapse under vacuum

### ► Four sizes available

- Small for sample volumes up to 1 liter
- Large for sample volumes up to 8 liters
- Extra-large for sample volumes up to 10 liters
- Jumbo for sample volumes up to 25 liters



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# Vac-U-Chamber

## Eliminates Pump Contamination During Bag Sampling

### Performance Profile

<b>Sampling Media:</b>	1, 8, 10, or 25-liter bag
<b>Sampling Rate:</b>	User selectable
<b>Sample Time:</b>	Varies <i>Do not fill bag more than 80% of its maximum volume</i>
<b>Sample Pump:</b>	AirChek XR5000 or Universal XR — 1 to 5 L/min
<b>Analysis:</b>	Varies

### Using the Vac-U-Chamber

The Vac-U-Chamber is equipped with three 1/4-inch OD fitting ports for inflating sample bags:

- **Sample inlet port** for connecting to the sample line or gas source
- **Purge port** for purging the air prior to sampling or when preparing the bag for a standard
- **Vacuum port** for inflating a bag

An air sample bag is connected to the inside sample inlet port and the chamber is closed, providing an airtight seal. An air sample pump is connected to the outside vacuum port. When activated, the pump evacuates air from inside the chamber. The sample bag inflates as a result of the interior pressure drop. This pneumatic technique allows the air sample to enter the bag directly without passing through the pump, protecting the pump from sample contaminants and the sample from pump contaminants.

#### 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>.

### Ordering Information

#### Small Vac-U-Chamber for 1-liter Bags

Description	Cat. No.
<b>Complete Vac-U-Chamber Kit</b> includes Standard AirChek XR5000 sample pump, single charger, small Vac-U-Chamber, and 10 Tedlar sample bags Cat. No. 232-01 <b>100-240 V</b>	<b>210-4124</b>
<b>Small Vac-U-Chamber only</b> with polypropylene fittings (supplied without pump), suitable for use with SKC 1-liter sample bags below	<b>231-940</b>
<b>1-liter Sample Bags</b> with single polypropylene fitting, for use with small Vac-U-Chamber Cat. No. 231-940, pk/10	
<b>Tedlar</b>	<b>232-01</b>
<b>FlexFoil PLUS</b>	<b>252-01</b>
<b>Standard FlexFoil</b>	<b>262-01</b>
<b>Quick Coupling</b> with tubing for use in Cat. No. 231-940	<b>P231941M</b>

#### Large Vac-U-Chamber for 8-liter Bags

Description	Cat. No.
<b>Complete Vac-U-Chamber Kit</b> includes Standard AirChek XR5000 sample pump, single charger, large Vac-U-Chamber, and 10 Tedlar sample bags Cat. No. 232-939 <b>100-240 V</b>	<b>210-4115</b>
<b>Large Vac-U-Chamber only</b> with stainless steel fittings (supplied without pump), suitable for use with SKC 8-liter sample bags below	<b>231-939</b>
<b>8-liter Sample Bags</b> with single polypropylene fitting, for use with large Vac-U-Chamber Cat. No. 231-939, pk/10	
<b>Tedlar</b>	<b>232-939</b>
<b>FlexFoil PLUS</b>	<b>252-08</b>
<b>Standard FlexFoil</b>	<b>262-08</b>
<b>Quick Coupling</b> with tubing for use in Cat. No. 231-939	<b>P231941</b>

#### Extra-large Vac-U-Chamber for 10-liter Bags

Description	Cat. No.
<b>Extra-large Vac-U-Chamber only</b> with stainless steel fittings (supplied without pump), suitable for use with SKC 10-liter sample bags below	<b>231-944</b>
<b>10-liter Sample Bags</b> with single polypropylene fitting, for use with extra-large Vac-U-Chamber Cat. No. 231-944, pk/10	
<b>Tedlar</b>	<b>232-10</b>
<b>FlexFoil PLUS</b>	<b>252-10</b>
<b>Standard FlexFoil</b>	<b>262-10</b>

#### Jumbo Vac-U-Chamber for 25-liter Bags

Description	Cat. No.
<b>Jumbo Vac-U-Chamber only</b> with stainless steel fittings (supplied without pump), suitable for use with SKC 25-liter sample bags below	<b>231-946</b>
<b>25-liter Sample Bags</b> with single polypropylene fitting, for use with jumbo Vac-U-Chamber Cat. No. 231-946, pk/5	
<b>Tedlar</b>	<b>232-25</b>
<b>FlexFoil PLUS</b>	<b>252-25</b>
<b>Standard FlexFoil</b>	<b>262-25</b>

#### Tubing

Description		Cat. No.
<b>PTFE tubing</b> , 5/16-inch OD (1/4-inch ID)	10 feet	<b>231-937</b>
	50 feet	<b>231-924</b>
<b>Tygon tubing</b> , 3/8-inch OD (1/4-inch ID), for connecting Vac-U-Chamber to pump	10 feet	<b>225-13-4</b>

