

Vac-U-Chamber

Negative Pressure Eliminates Risk of Contamination

- **Allows direct filling of air sample bags**

- Uses negative pressure provided by most personal air sample pumps

- **Protects from contamination**

- Sample does not pass through the pump
- Stainless steel and Teflon® surfaces eliminate contamination

- **Rugged, heavy-duty construction**

- Will not collapse under vacuum

- **Available in two sizes**

- 1 liter
- 10 liter

Inside Dimensions
10 liter
19 x 14 x 7.8 in
(48.3 x 35.6 x 19.8 cm)



Description

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. Since the air sample does not pass directly through the pump, both pump and sample contamination are eliminated. The Vac-U-Chamber's rigid walls will not collapse under vacuum conditions. All surfaces in contact with the sample are constructed of stainless steel or Teflon for inertness.

Applications

- Groundwater testing
- Soil gas sampling
- Stack sampling
- Ventilation studies
- HazMat testing
- Ambient or indoor air sampling
- EPA Method 30



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 outlet 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.

Ordering Information

Description	Cat. No.
10-liter Vac-U-Chamber only with stainless steel fittings (supplied without pump), suitable for bags up to 10 liters	231-939
1-liter Vac-U-Chamber only with polypropylene fittings (supplied without pump), suitable for bags up to 1 liter	231-940
Complete Vac-U-Chamber Kit includes one each: PCXR4 sample pump, single charger, and 10-liter Vac-U-Chamber and ten 10-liter sample bags	224-4115
Quick Disconnect with tubing for replacement in Cat. No. 231-939	P231941
Teflon tubing , 5/16-inch OD (1/4-inch ID), 10 feet	231-937
Teflon tubing , 5/16-inch OD (1/4-inch ID), 50 feet	231-924

Tedlar Bags for Vac-U-Chambers	Cat. No.
10-liter Tedlar Bag with single polypropylene fitting, 11.75 x 18 inches, maximum capacity 10 liters for use with 10-liter Vac-U-Chamber (Cat. No. 231-939)	232-08
1-liter Tedlar Bag with single polypropylene fitting, 7 x 7 inches, maximum capacity 1 liter for use with 1-liter Vac-U-Chamber (Cat. No. 231-940)	232-01

The Vac-U-Chamber is available in other sizes and fittings as a custom order. Contact your SKC representative for more information.

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