

NEW!

Bottle-Vac™ Samplers

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The new Bottle-Vac™ samplers are the latest in economical gas-phase sample collection devices. They utilize the Entech Micro-QT™ Valves which are small and non-contaminating by design. Bottle-Vac™ samplers are more gas-tight than Tedlar bags and hold a vacuum for several days, making them a superior, low-cost solution for whole air sampling. The sample is only exposed to treated glass, 316 stainless (or Silonite® coated stainless), and a small o-ring which forms the seal at the cap. All these materials are inert, allowing a wide range of analyte recovery. The Micro-QT™ valve is capable of "around the valve" sampling like the MiniCan™ Micro-QT2™ valve by simply unscrewing the cap and tilting the fitting to break the vacuum seal. Several time-weighted "through the valve" sampling techniques are also possible using the canister sampling inlets on Pg. 17.

Cleaning Bottle-Vac™ Samplers

Bottle-Vac™ samplers are reusable, making them much less expensive than other sampling devices, even Tedlar bags. For PPB sampling, the bottles should be flushed with nitrogen or zero air in an oven after the fittings have been removed, then evacuated after reattaching the fitting. Fittings can be heated, flushed, and stored under nitrogen in a separate container like those found on Pg. 47.

For PPM sampling, the valves and bottles can simply be heated in an oven overnight with the fittings removed, then assembled for immediate evacuation and delivery to the field.



16 oz and 8 oz Bottle-Vac™ Samplers

Bottle-Vac™ Sample Analysis

In the laboratory, analysis by loop injection requires either pressurizing to 3 psig, or heating to 60-70 deg. C to increase the pressure enough to purge a loop. The Bottle-Vac™ samplers can also be analyzed using the 7100A Preconcentrator to withdraw a larger volume for low PPB analysis. Automated loop or large volume heated analysis can be performed using the Entech 7500 Robotic Autosampler with the appropriate 28 position tray installed (see Pg. 46).

Applications

- All Tedlar Bag uses, plus:*
- Fence Line Monitoring
 - Indoor Air Quality
 - STEL Monitoring
 - Fugitive Emissions
 - Landfill Gas/Soil Gas
 - Breath Analysis
 - Mold Detection (MVOCs)
 - Impurities in Gases
 - Stack Gas



Valve Cap for 16 oz Bottle-Vac™



Micro-QT™ Valve for 16 oz Bottle-Vac™

Unit	Part No.	Description
EA	30-22610	8 oz Bottle QT Valve
EA	30-22630	16 oz Bottle QT Valve
EA	29-70010QT	0-30" Hg Vacuum Gauge
EA	29-70020QT	30-0-30 Cmpd Vacuum Gauge

See additional QT fittings on pg. 17

Unit	Part No.	Description
EA	29-BV230A	8 oz Amber Bottle-Vac™ Sampler
12/PK	39-76230A	8 oz Amber Bottles*
EA	39-76230S	8 oz Silonite® Coated Bottle*
EA	29-BV460A	16 oz Amber Bottle-Vac™ Sampler
12/PK	39-76460A	16 oz Amber Bottles*
EA	39-76460S	16 oz Silonite® Coated Bottle*
144 /PK	39-76234	8 oz Valve Caps, no valve
144 /PK	39-76464	16 oz Valve Caps, no valve

* These items require valves and caps to be ordered separately.