

Sampling Instructions for Collecting Grab Samples in Canisters

Please Read The Following Important Information Before Starting

- *Canisters cost around \$500 and should be treated as precision sampling equipment. Be careful not to drop or damage the canisters.*
- *The cap on the canister is important to hold canister vacuum and protect sample integrity. Be sure to keep the cap on tight until you are ready to use the canister.*
- *The Canisters are sent under a vacuum of 29.5" Hg. These are checked in the laboratory before shipment. If you check the vacuum in the field it is preferable to use a digital pressure gauge to get an accurate reading. The gauges on the flow regulators are calibrated, but are not accurate.*

SUMMA Canisters or Silico Canisters can be used for both ambient air sampling and source sampling. The canisters should only be filled to a maximum pressure of 20 psig. The canisters and valves are constructed of Stainless Steel and are temperature resistant, but the valve should not be subjected to prolonged temperatures over 150 C.

PROCEDURE:

- Take canister and a 9/16inch wrench (or adjustable wrench) to desired sampling location.
- Remove cap from top of canister. A short Stainless Steel or Teflon sampling line can be attached if desired. If the line length is less than 12" then it is not necessary to flush the line with the sample except for very critical applications.
- Open valve with green handle slowly. The sound of air rushing into the canister should be heard. Leave valve open for about 1 minute.
- Close valve gently. Only very light tightening is needed for valve to seal. This should be about the same as when the valve was opened.

- Screw on cap and tighten securely with wrench.
- Fill out Sample Custody Sheet with date, time, location, and any additional information you desire.
- Place canister and custody sheet back into the box and place the shipping label on the outside of box. Send back UPS. The value of the canisters is \$500 each and the client is responsible for the canisters until they are delivered to EAS.

When Done:

Ship the Sampler and Canister back to Environmental Analytical Service, Inc.

Environmental Analytical Service, Inc.
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