



AIR SAMPLING INSTRUCTIONS USING SUMMA CANISTERS

Grab Sampling Procedure:

1. Verify the initial vacuum reading of the canister and record the reading.
2. Ensure the canister valve is fully closed. The knob should be turned clockwise.
3. With a 9/16" wrench, remove the brass fitting from the top of the canister.
4. Open the valve on the canister counter clockwise then close the valve by turning clockwise until hand tight. (The blue valve will open ½ turn; the green valve will open 1 full turn). Please note: the valve must be closed prior to can vacuum reaching 0.
5. Replace the brass fitting on top of the canister.
6. Record the date, time and final vacuum of the canister and complete the Chain of Custody Record/Field Test Data Sheets provided with the canister and the canister sample tag.

Time Integrated Sampling Procedure:

Summa canisters are completely evacuated to negative pressure (-30"Hg) before use. Once the valve has been opened, sample will be taken into the canister at a rate defined by the use of the flow controller. The flow rate for the calibrated controller is specified on the cover of the flow controller box. To use the flow controller, please follow these instructions.

1. Verify the initial vacuum reading of the canister and record the reading.
2. Ensure the canister valve is fully closed. The knob should be turned clockwise.
3. With a 9/16" wrench, remove the brass fitting from the top of the canister and store it in the flow controller box for safe keeping.
4. Attach the flow controller to the top of the canister, screwing on by hand and gently tightening the fitting with the wrench to allow for an airtight seal. **Do not over tighten.**
5. Open the valve on the canister counter clockwise and record the "start" time. (The blue valve will open ½ turn; the green valve will open 1 full turn).
6. Monitor sampling progress periodically.
7. At the end of the sampling period, close the valve on the canister by turning clockwise until hand tight. Record the "end" time. While the ideal reading on the can gauge should be slightly negative, the actual can pressure will be tested with a calibrated gauge at the laboratory*.
8. Remove the flow controller and put it into its appropriate box (the number etched into the flow controller will match the number on the end of its box).
9. Replace the brass fitting on top of the canister.
10. Record the final vacuum of the canister and complete the Chain of Custody Record/Field Test Data Sheets provided with the canister and the canister sample tag.

ADDITIONAL NOTES FOR SAMPLING SOIL VAPOR

- Clear all tubing of any water content prior to opening the valve. This will help minimize loss of water soluble analytes.

Soil vapor samples can adversely affect final vacuum pressure due to changes, both positive and negative, in air pressure. Regulators are finely calibrated to take in a precise amount of air under ambient conditions. However, changes in pressure at the soil vapor point can impact the amount of air going into the cans. This can result in final readings at 0 or above.

*The laboratory final readings may differ and are more accurate than field readings due to use of laboratory-calibrated equipment. Canister gauges are field equipment which are non-calibrated.

INSTRUCTIONS SPECIFIC TO CT RCP AND MA MCP CAM

It is the sampler's responsibility to correctly identify the can and associated regulator serial #s for each sample collected. This is recorded by Spectrum Analytical on the Chain of Custody Record/Field Test Data Sheets provided with each canister order. If the canisters and regulators are mismatched it is important to correct the serial #s on the COC so that the laboratory can identify which regulator was used with each can. All fields on the COC must be completed in order to meet Pre-emptive Certainty/Reasonable Confidence Protocol requirements.



For more information, please feel free to contact our Air Department at (800) 789-9115.

