

Instructions for Air Canister Grab Sampling

1. Inspect your air canister order upon receipt. Compare the contents with the Air Canister Packing Form and notify your Braun Intertec Project Manager or Sample Control (952.995.2600) of any discrepancy or damage, immediately.
2. Please review the picture of the air canister. Note that the units on the vacuum gauge are in psi for pressures equal to or greater than atmospheric pressure (0 to 60 psi) and in inches of mercury (0 to -30"Hg) when the inside of the canister is less than atmospheric pressure. The vacuum gauge on evacuated canisters that are ready for sampling should indicate -30"Hg.
3. Remove the brass cap from the canister using a 9/16-inch wrench. Attach the Particulate Filter/Sampling Line to the air canister using a 9/16-inch wrench. Finger tighten the nut. The nut should turn smoothly, if it does not, take it off and begin again so as not to cross thread the fittings. After the nut is finger tight, tighten an additional 1/8 turn using a 9/16-inch wrench. Do not over tighten. If the nut is over-tightened, leaks may result. The nuts and fittings are Swagelok® compression fittings. Do not use Teflon™ tape or other like products on the threads as these are not needed or required.
4. The Sampling Line supplied with the air canister order is approximately 24 inches of polyethylene with an outside diameter of 1/4 inch.
5. Record the initial reading from the vacuum gauge on the Chain of Custody form. To begin sample collection, slowly open the blue air canister valve counter-clockwise 1/2 turn. You will start to feel resistance when the valve is open. Stop at that point; the valve is fully open. Monitor the sampling progress.
6. When the vacuum gauge reads approximately 0 on the gauge (in some sampling situations this may not be possible) document the final pressure indicated on the vacuum gauge and then slowly close the air canister valve by turning the knob clockwise. Do not over-tighten the valve. The grab sample collection is complete at this time.
7. Record the final air canister pressure as indicated on the vacuum gauge on the Chain of Custody form.
8. Document your sample identification on the air canister sample tag that is supplied with each canister. Attach the tag to the air canister in a secure fashion. Do not place any type of adhesive labels or stickers on the air canister.
9. Record the sample identification, Canister ID #, sampling date, time, and PID Readings on the air canister Chain of Custody.
10. Remove the Particulate/Sampling Line from the air canister using a 9/16-inch wrench. Place the brass cap onto the air canister and finger-tighten. Using a 9/16-inch wrench tighten the brass cap 1/8 turn. Do not over-tighten.
11. Return **ALL** components to Braun Intertec in the shipping containers that you originally received. Verify the shipment against the Air Canister Packing Form. Be sure to place the Chain of Custody in the shipping container and affix a custody seal if required. Return to Braun Intertec at 11001 Hampshire Ave South, Bloomington, MN 55438, Attention: Sample Control or your project manager.

