

How to use the Buck BioAire™ sampling pump (for Spore Trap analysis)

Instructions

1. Place the sampling pump on a flat surface at an appropriate height above the ground. If this is not possible, place the sampling pump on top of the case it came with.
2. Turn the pump on by pressing the ON key. The pump will actuate all the indicating LED lights for one second and beep twice to acknowledge the turn on.
3. Take an Allergenco-D cassette and peel the quality seals from both ends and place it firmly into the hose connection of the sampling head on the top of the unit.
4. Press the appropriate timing key (1, 2, 5 or 10 minutes) button to commence sampling. The light above the timing key will light and the pump will automatically run to the calibrated flow for the selected time.
5. Once sampling is complete, the pump will stop and the 'COMPLETE' LED light will light and the timer LED will be flashing to indicate which timing routine was selected.
6. When sampling is finished, remove the cassette from the hose connection and replace both the quality seals on the sample.
7. Ensure that the sample is labelled before taking any subsequent samples.
8. Repeat the process for subsequent samples.
9. When all sampling is completed, press and hold the OFF key until the pump switches off.

Important Points

- Please record the sampling time chosen for all samples.
- Please ensure that all samples are labelled, and all required information are filled out in the COC.
- Please do NOT press the CAL button - the sampling pump is pre-calibrated to a flow rate of 15L/min.

Auto Power Off

- The sampling pump turns off 5 minutes after being turned ON if no keys have been pressed.
- The pump automatically turns off approximately 30 minutes after any sampling routine if no other key is pressed.

Battery Life and Charging

- At full charge, the sampling pump can run for 5 hours continuous operation at a flow rate of 15L/min.
- Recharge time for the sampling pump takes around 2.5-3 hours with the Standard Smart charger supplied with the pump.
- When the sampling pump is switched on, the LED lights located on the right-hand side of the unit should flash to display the unit's battery life. If all 5 lights flash, the unit is fully charged. The lights will gradually lessen as the unit is used until only the Low Battery LED is lit.
- The red Low Battery LED will begin to flash when there is only enough power to collect a 10-minute sample.
- Once the red Low Battery LED stops flashing and becomes a solid red light, none of the timing keys will function and a new sample cannot be started. The sampling pump should be recharged or plugged into the charger to continue sampling.

