

# AERO TRAP™ =



TOTAL PACKAGE  
PRICE  
\$699  
INCLUDES  
PUMP, CHARGER,  
ROTAMETER  
AND CASE



- 29 oz. Total Fungal Sampling Pump
- Four Hour Continuous Run Time
- Never buy another air sampling cassette
- Uses **FREE** gel-impaction slides\*
- ● ~~\$750~~ per kit (includes Pump, Rotameter and Charger)

\*Gel-impaction slides provided at "no charge" if analyzed at any Aerobiology Laboratory Associates, Inc. location.

## CELEBRATING 10 YEARS OF SERVICE

# Aerobiology Laboratory Associates, Inc.

Dulles, VA  
1.877.648.9150



Atlanta, GA  
1.866.620.9313

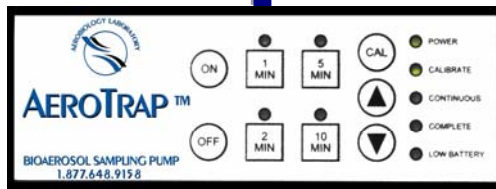


Denver, CO  
1.866.620.9348

NVLAP®  
#200829

WWW.AEROBIOLOGY.NET

# AeroTrap™ *SpecSheet*



877•648•9150

[www.aerobiology.net](http://www.aerobiology.net)

**Eliminates the use and cost of bio-cassettes**

**For Quality purposes a FREE Rotameter is provided to measure air flow before and after each sampling event.**

## Operation

The AeroTrap™ sampling pump (product #ALAI-5000) provides a selectable, continuous, constant sample flow rate and is simple to operate. No tools are required. Its quiet operation allows unobtrusive sampling in IAQ, medical clean room, public and residential building applications.

The front keypad is organized into three functional key groups: **POWER** (ON-OFF), **Timing** (1, 2, 5 or 10 minute samples) and **CALIBRATION** (Cal Mode, Increase Flow, Decrease Flow). Positive tactile feedback is provided by the keys. The AeroTrap™ has internal NiCad batteries to provide a full five (5) hours continuous run time at 15 LPM. The standard charger provides a battery recharge in 12-16 hours and allows the unit to operate on AC power; an optional FastOne™ Charger provides a battery recharge in one hour.

End of Sample notice is provided by the lit LED "Complete" and three (3) short beeps.

## Specifications

**FLOWRATE:** 10-20 LPM constant flow

**ACCURACY:** ± 5% of set point

**RUN TIME:** 10LPM - 9hrs. Or 15LPM - 5hrs. Or 20LPM - 3.5 hrs.

**SIZE:** 4"H x 6" W x 5 1/4"D  
(10.2cm H x 15.2 cm W x 13.3 cm D)

**WEIGHT:** 29 oz. (826 g)

**COMPATABILITY:** Buck Gel-Impaction Slide  
Generic Grease Slide

## Sampling Steps

Before sampling, ensure that the battery is fully charged and that the 'low battery' LED is NOT on. For greatest accuracy, the pump should be calibrated once a day.

1. Place pump in desired location.
2. Immediately before sampling, open the Impactor Door and place a pre-marked slide (you may use unmarked generic grease slide provided by the laboratory or you may purchase Buck Impaction-gel slides with serial numbers) in the recessed slot **gel side up**. Transfer the same marking on your slide to your Chain-of-Custody form. Close the door and check that it is closed tightly.
3. Push the "ON" button to power up the AeroTrap™ pump and either (a) continue to hold the "ON" button for four (4) seconds to power up the pump or (b) push one of the programmed time keys (1,2,5,10 minutes) for an automatically timed sample.
4. At the end of the programmed sample period, pump will automatically shut off and the "COMPLETE" LED will be lit; under "Continuous" mode, push and hold the "OFF" button for two (2) seconds to shut off pump.
5. Open and remove the slide by grasping at the end that is frosted or where the serialized numbers are located.
6. Replace the slide in its original box and send to:

**Aerobiology Laboratory**  
**43760 Trade Center Place, Suite 100**  
**Dulles, VA 20191**

## Calibration

For greatest accuracy, the AeroTrap™\* sampling pump should be calibrated once per day. Calibration is performed with generic grease slide or Buck Impaction-gel slides installed. The pump is a controlled flow device specially designed to accommodate the natural backpressure inherent in Gel-Impaction slides. It is for use only with microscope slides 1x3 inches in size.

1. Place the Rotameter (Flowmeter) over the slit on top of the closed Impactor Door. The built in O-ring seal of the Rotameter will give a tight connection.
2. Push "ON", then press the "CAL" for 2 seconds to put pump into calibration mode. Adjust the flow rate using the ▲ and ▼ keys to set the center of the Rotameter ball to the desired flow rate mark on the Rotameter. Fine adjustments are possible. Allow pump to stabilize.
3. When flow rate is achieved, push "CAL" to accept setting, then turn pump off.

Verify the flow at anytime with the Rotameter by selecting a 1, 2, 5, 10 minute timing routine. Press the "OFF" key to stop. If the verified flow was accurate, entering Cal is not necessary. Entering the CAL mode removes the previous setting for a new flow rate.

\* AeroTrap™ is an A. P. Buck, Inc. manufactured product.