



ACD-200 BOBCAT™ AIR SAMPLER WITH RAPID FILTER ELUTION KIT

A NEW KIND OF SAMPLER - THE BOBCAT IS THE FIRST CHOICE FOR BIOAEROSOL MONITORING WHEN PAIRED WITH RAPID MOLECULAR METHODS

THE ACD-200 BOBCAT is a lightweight, portable, dry filter air sampler with a unique filter sample recovery kit. It is ideally suited for the collection of bioaerosols and particulate matter, including submicron-sized particles, airborne molecular contamination, and particulates.

Recovering a sample from dry filters has never been easier. With InnovaPrep's™ patented Rapid Filter Elution Kit, filter recovery takes only seconds; it releases particles with minimal liquid and unsurpassed efficiencies.

The Bobcat was created for tactical use. Operational modes include predefined single sample collection, externally triggered collection (with optional trigger), continuous sampling, and programmed intermittent sampling for long-term monitoring. The unit can be operated using an internal rechargeable battery or plugin (110/220 V).

THE BOBCAT AIR SAMPLER

takes up little more than one-quarter of a cubic foot, has an internal battery, built-in-tripod, and has a flow rate of 200 liters per minute. The system uses a dry 52mm electret filter as the collection media. Electret filters are produced from dielectric polymer fibers that develop an electrical charge when air flows past them. This substantially increases the collection efficiency of the filter and allows for the use of lower pressure drop filters, which, in turn, allows for higher sampling rates for extended periods using battery power. Additional advantages include low consumable costs, ease of use, and high durability. This gives it the ability to operate at low temperatures; a limitation for most wet-wall cyclone type collectors.

FAST AND EASY FILTER ELUTION

InnovaPrep's patented Rapid Filter Elution Kit releases particles with minimal liquid, unsurpassed efficiency and pairs perfectly with rapid analytical methods.

Following Aerosol collection, the Filter is removed from the Collector, capped on one side, then snapped onto the Sample Cup; this provides a primary container for transport. To extract the captured particles from the filter, the user simply presses a canister containing the elution foam into a fitting on the Elutor Cap. The Elution Foam is released from the Elution Canister evenly through the filter. The Wet Foam passes through the interstitial spaces for the filter to efficiently extract any captured particles. Sample elution takes approximately 5 seconds and produces 6 to 7 milliliters of liquid sample. Within seconds, the foam collapses back to a liquid making it available for sample processing and analysis.

SINGLE USE FILTER KITS INCLUDE



FEATURES

- . Built-in carry handle
- . Lightweight, only 7.8lbs (3.5 Kg) with battery
- . Built-in tripod for easy deployment
- . Built-in omni-directional aerosol inlet
- . Rugged design for durability
- . Built-in mass flow sensor for consistent sampling rates
- . 4 programmable run modes allow the user to balance collection rate with battery life
- . Disposable, single use filter cassette and elutor components -no need for decontamination
- . No liquids in the collector allow for use in extreme temperatures
- . Eluting captured particles from the filter is fast; sample is ready for analysis in seconds
- . Easy to use
- . Controls can be maipulated with gloved hands, while in full NBC gear
- . Optional remote trigger is available

MARKETS AND APPLICATIONS

- . Biosurveillance
- . Environmental monitoring
- . First responders
- . Indoor air quality
- . Industrial hygiene monitoring
- . Agriculture biosecurity
- . Metagenomics research

SPECIFICATIONS

Flow rate	200 Lpm
Filter Type	52 mm dry electret
Elution fluid types	0.075% Tween 20/25 mM Tris buffer recommended for rapid analytical methods and 0.075% Tween 20/PBS recommended for classical analysis
Particle collection size	0.01 μm to 10 μm
Dimensions	12" x 7.5" x 7"
Weight (with battery)	7.8 lbs (3.5 Kg)
Power	100 to 240 VAC, 47/63 Hz or choice of rechargeable battery. *Lithium-Ion 28.8v *Nickel Metal Hydride 24v
Inlet height with tripod deployed	40 inches (0.73m)
Final liquid sample volume	6-7 mL