AIRPREP™

Aerosol Sampling & Collection System Specifications

	ACD200 Bobcat	ACD210 & ACD220 Cub
Particle Range	Optimized for 0.01 μm to 10.0 μm, minimizes capture of particles >11 μm	
Inlet	Patented built-in omnidirectional super-isokinetic	
Decontamination	Hydrogen peroxide or alcohol wipes	
Environmental	Indoor or Outdoor Use in non-condensing environments	
Technology	Dry electret filter media, built-in mass flow sensor for consistent sampling rates	Dry electret filter media with calibrated sampling mode
Temp/ Humidity Range	Operating temp. -2° C to 60° C Storage temp. -2° C to 40° C	Operating temp. -2° C to 60° C Storage temp. -2° C to 30° C
Flow	100 or 200 L/min	50, 100 or 200 L/min
Noise	71.3 dBa at 200L/Min	78.6 dBa at 200L/Min (without QuietDock) 68.3 dBa at 200L/Min with Quiet Dock (Sold Separately)

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Aerosol Sampling & Collection System Specifications

	ACD200 Bobcat	ACD210 & ACD220 Cub
Physical Size	Filter: 52mm diameter active filter Case: 20.32cm x 12.7cm x 12.7cm (W/L/H)	Filter: 52mm diameter active filter Case: 20.32cm x 12.7cm x 12.7cm (W/L/H)
Weight	3.5kg with battery	1.3kg w/ battery (ACD210), 1.1kg w/o battery (ACD220)
Power Source	Universal wall supply: 82-265V (47-63 Hz) Option A: Rechargeable 7.5 Ah Lithium Ion 28.8V Option B: 4.8 Ah Nickel Metal Hydride 24V (2 each 12V sections)	Universal wall supply: 82-265V (47-63 Hz) Lithium Ion 14.8V, 3350 mAH (ACD210 only)
Rated Input Current	3.0A	5.0A
Rated Input Voltage	12 VDC	24 VDC
Expected Run Times	Up to 14 hrs on continuous mode, or 6 days on extended run. Battery type dependent	50 LPM- 16hrs 100 LPM- 8 hrs 200 LPM- up to 4 hrs Battery type dependent
System Controls	Active control for consistent sampling rates, 5 Status lights with light discipline for military applications, 5 user-selectable run modes and system status check button	Intuitive controls with user selected flow rate, timer controls and status lights
Mounting	Built-in tripod extends to 40" at inlet	Built-in tripod mount. 72" tripod sold separately
Hard Shell Rolling Travel Case	Customizable rugged case suitable for transport and field use. Large enough to accommodate the instrument and consumables. Dimensions: Exterior: 25" x 20" x 12" Interior: 21" x 17" x 10.5"	

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Sample Recovery

Filter Recovery Method	**Wet Foam Elution**
Final Sample Volume	**~ 6-7mL**
Recovery Efficiency	**86-95%* will vary based upon particle type and size**
Recovery Time	**~ 20 Seconds**
Sample Recovery Power Requirement	**None - single use consumables**
Sample-to-Sample Carryover	**None - System uses single-use filters and an easy to clean flow path**
Recovery Consumables: Single Use Kits	**AC08100T- Filter and Elution Kit -Tris** **AC08100P- Filter and Elution Kit -PBS** **Click here for AirPrep Consumable Selection Guide**
Recommended Storage Temperature:	**2-25 ° C (for AirPrep Elution Buffer)**

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