

**ВUCK Elite<sup>тм</sup> - 12 Ритр** 

Tech Brief T100-912

The *BUCK* **Elite**<sup>™</sup> is a data logging, programmable personal air sampler consists of a pump contained in a high impact steel fiber filled Lexan, antistatic, and RFI/EMI-shielded case, exclusive electronic circuit board for constant flow control (patent pending), an LCD display with 2 lines of 16 characters, a single diaphragm pump mechanism, and a rechargeable NiMH battery pack.

The purpose of this pump is to draw air contaminants in through a sampling media such as 25 and 37mm filter cassettes, bubble impingers, long-duration color detector tubes; to gauge personnel exposure to gases, vapors, particulates, aerosols, etc.

No tools are required to operate this pump and a password protected keypad locking system provides uninterrupted operation. The main display allows quick selection to RUN (for sampling) or MENU (to reset pumps data).

Other features include elapsed time, flow rate, and accumulated volume. Programmable timer for delayed start/stop run. The PC link capability lets you download the sampling data into a PC using the RS232COM port and the Buck PC link cable. The built in duration timer counts down the sampling time up to 40 hours and automatically turns the pump off.





Flow Range 3 to 12 LPM Low Flows 0.05 - 0.8 LPM with Low Flow Holder



## **Features:**

- Capable for Data logging and programmable for Start/Stop and Duration Sampling.
- High back pressure compensation, up to 40" of water @4LPM
- Accuracy: ± 5% of compensation range
- Flow range 3 to 12LPM. Low flow of 0.05-0.8 LPM with Universal low flow adapter.
- Flow compensation for filter plugging and battery voltage
- "Auto-restart" within one minute of a flow fault
- Battery pack rechargeable while attached or separately
- Stainless steel belt clip with built-in tripod connector
- Key pad lock system
- One year warranty



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## BUCK Elite<sup>™</sup> - 12 Pump

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	Operating Instructions
Performance Profile	Buck Elite-12
Model: Buck Elite - 12 Flow Range: 3-12 LPM (3000-12000 cc/min) 0.05-0.8 LPM With Universal Low Flow Holder P.N. APB-109030 Compensation Range: 12.0LPM from 3" up to 5" water back pressure 10.0LPM from 3" up to 12" water back pressure 8.0LPM from 3" up to 12" water back pressure 6.0LPM from 3" up to 30" water back pressure 5.0LPM from 3" up to 36" water back pressure 4.0LPM from 3" up to 40" water back pressure 3.0LPM from 3" up to 40" water back pressure	Battery Capacity. Each bar represents approximately ¼ of power remaining.
Accuracy: $\pm 5\%$ of Compensation Range Run Time (hrs.) at different Water Back pressure. Flow RateFlow RateWater Back PressureLPM $5"$ 10" $5''$ 20"25"30" $3$ 50362620 $4$ 41292317 $4$ 41292317 $5$ 31231814 $6$ 241714 $10$ 74 $12$ 4Pressure mode:0.05-0.8LPM : 8 hrs.	Specifications         Power Supply:         Triple Pack, NiMH Batteries 4.8V, 6.45 Ah         Recharge Time:         Charger:         Quick-Chargers: Input Voltage 100 to 240 VAC         Battery       QuickFive™ Standard Smart Charger         Triple Pack       6Hrs       6-7Hrs
<u>Data Storage</u> : Flow rate, elapsed clock time, accumulat	ted Standard-Chargers: Input Voltage 120 VAC or 230 VAC Approvals: CE EMC Directive (EMCD) 89/336/EEC UL and cUL (pending), ATEX (pending) Temperature:
volume, temperature, DP and any Flow F are logged in the memory for download t	Faults Operating 32°F to 113°F (0°C to 45°C) Storage 32°F to 113°F (0°C to 45°C)
Display: Backlit LCD with 2 lines of 16 Characters	Charging 41°F to 104°F (5°C to 40°C) <b>Case:</b> Polycarbonate steel fiber filled, RFI/EMI-shielded
Normal Operation: Battery Level, Flow Rate, Elapsed	Size: 5.75"H x 4"W x 2"D (11.4 cm H x 10.2 cm W x 5 cm D)
Time, Volume Collected, Timer, DF	

Flow Fault Displays: Flow Fault, or Filter Off

PRODUCT	DESCRIPTION	
APB-908300	Buck Elite <sup>™</sup> –12 Single Pack Pump kit with standard smart 120V wall charger	2018
APB-908320	Buck Elite <sup>™</sup> –12 Single Pack Pump kit with standard smart 230V wall charger	5 0
APB-948000	Buck Elite <sup>TM</sup> –12 5 pk Pump kit with Quick Five charger and case	Rev

\* Pump kit includes pump with a Triple pack NiMH battery, standard smart battery charger, Luer hose adapter, shirt/ hose clip, 3 feet of vinyl hose and operating manual.

\*\* Pump 5-pack kit includes 5 each: pumps with Triple pack NiMH batteries, Luer hose adapter, shirt/hose clip, and 3 feet of vinyl hose. Also included is two operating manuals, one *QuickFive*<sup>™</sup> charger 100-240VAC , and a durable hard plastic case that accommodates additional accessories.

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