

The **BUCK Elite™** 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. Easy programming software allows the pump for unattended Start/Stop operation with the capability for up to ten different ON/OFF durations with repeat options. The PC link capability lets you download the sampling data into a PC using the RS232 COM port and the Buck PC link cab

Features:

- Capable for Data logging and programmable for multiple Start/Stop and Duration Sampling.
- 50 Hours of Run time at 3LPM(0.8um 37mm MCE filter)
- High back pressure compensation, up to 40" of water @4LPM
- Accuracy: $\pm 5\%$ of compensation range
- Flow range 3 to 12LPM. Low flow of 50-800 cc/min 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

Main Display



Flow Range 3 to 12 LPM
Low Flows 50-800 cc/min with
Low Flow Holder



Rev. 8.31.09

Performance Profile

Model: Buck Elite - 12
 Flow Range: 3-12 LPM (3000-12000 cc/min)
 50-800 cc/min with Universal Low Flow Holder
 P.N. APB-109030
 Compensation Range:
 12.0LPM from 3" up to 5" water back pressure
 10.0LPM form 3" up to 12" water back pressure
 8.0LPM from 3" up to 12" water back pressure
 6.0LPM form 3" up to 30" water back pressure
 5.0LPM form 3" up to 36" water back pressure
 4.0LPM from 3" up to 40" water back pressure
 3.0LPM form 3" up to 40" water back pressure

Accuracy: ± 5% of Compensation Range
 Run Time (hrs.) at different Water Back pressure.

Flow Rate	Water Back Pressure							
LPM	5"	10"	15"	20"	25"	30"	35"	40"
3	50	36	26	20	17	15	12	10
4	41	29	23	17	13	11	9	8
5	31	23	18	14	11	9	8	
6	24	17	14	11	9	8		
8	14	11						
10	7	4						
12	4							

Pressure mode: 50-800cc/min : 8 hrs.

Data Storage: Flow rate, elapsed clock time, accumulated volume, temperature, DP and any Flow Faults are logged in the memory for download to PC.

Display: Backlit LCD with 2 lines of 16 Characters

Normal Operation: Battery Level, Flow Rate, Elapsed Time, Volume Collected, Timer, DP & Temp.

Flow Fault Displays: Flow Fault, or Filter Off

Operating Instructions

Buck Elite-12

Battery Capacity. Each bar represents approximately ¼ of power remaining.

ON and OFF key turns pump off when pressed for 4 seconds. Also acts as an escape key in sub-displays and return to the Main display.

Press and Hold Set key and use the arrow key to change display values

UP and DOWN key serve as dynamic key to operate and display text directly above. Also serves to change display settings while SET key is pressed.

Specifications

Power Supply:

Triple Pack, NiMH Batteries 4.8V, 6.45 Ah

Recharge Time:

Charger:

Quick-Chargers: Input Voltage 100 to 240 VAC

Battery	QuickOne™	QuickFive™	Standard
Triple Pack	6Hr	6Hr	16Hr

Standard-Chargers: Input Voltage 120 VAC or 230 VAC

Approvals: CE EMC Directive (EMCD) 89/336/EEC
 UL and cUL (pending), ATEX (pending)

Temperature:

Operating	32°F to 113°F	(0°C to 45°C)
Storage	32°F to 113°F	(0°C to 45°C)
Charging	41°F to 104°F	(5°C to 40°C)

Case: Polycarbonate steel fiber filled, RFI/EMI-shielded

Size: 6.75"H x 4"W x 2"D
 (17.15cm H x 10.2 cm W x 5 cm D)

Weight: 30 oz (.839g)

PRODUCT	DESCRIPTION
APB-908300	Buck Elite™ -12 Single Pack Pump kit with 120V wall charger.
APB-908320	Buck Elite™ -12 Single Pack Pump kit with 230V wall charger.
APB-948000	Buck Elite™ -12 5 pk Pump kit with Quick Five charger and Pelican case.

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* Pump kit includes pump with a Triple pack NiMH battery, standard 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™ charger 100-240VAC, and a durable hard plastic 1600 Pelican case with lifetime warranty that accommodates additional accessories.