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The Buck Libra™ is a low-cost high-performance personal air sampling pump. It is a “no frills” model designed for sampling of asbestos, lead, and other airborne contaminants. The rugged, compact design features a rechargeable nickel-cadmium battery with available one-hour recharger. The sealed pump case protects the internal components from dust, fibers and moisture. Simplicity of its operation features a “Set it and Forget it” flows at 2.0, 2.5, 3.0 LPM's, maintained within 5% for full constant flow compensation using 37 and 25 mm cassettes interchangeably. This insures accurate sample volumes based on the run time. The Libra, model L-4, is capable of delivering up to 4.0 LPM for periods exceeding 8 hours. Bright LED's indicate pump ON, Flow Fault or a Low Battery. Flow from 5 to 800 cc/m may be obtained using optional Low Flow Holder.

Note: Intrinsic Safe approvals pending.

BUCK *Libra™* Personal Air Sampling Pump



**Economical Abatement Pump
Flow Range 0.8 to 4 LPM**

Features:

- Compact, Rugged and Quiet
- No tools required to change flow rates
- Flow setting is saved in memory for next day quick start
- Battery pack rechargeable while attached or separately
- Stainless steel belt clip with built-in tripod connector
- One-hour rechargeable batteries and extended run triple packs
- High impact steel fiber filled Lexan case, antistatic and RFI shielded
- “Auto-restart” within one minute of a flow fault
- Flows up to 4 LPM for special cyclone requirements
- Low flows, 5 - 800 cc/m, with Universal Low Flow Sorbent Tube holder
- High backpressure capable for 25mm 0.45µ asbestos filters
- Built in washable stainless steel 100 micron filter for economy of use
- One year warranty



BUCK Libra™

Specifications

Model: L-4

Total Flow Range

0.005-4 LPM (5-4000 cc/min)
(Flows 5 –800cc/m requires Universal Low Flow Holder APB-109030)

LED's Operational Conditions

Green LED indicates pump is running
Orange LED on indicates a flow fault
Red LED indicates a low battery

Power

Rechargeable NiCad Batteries:4.8V,1.5Ah

Operating Temperature Limits

32°F to 104°F (0°C to 40°C)

Case

Polycarbonate steel fiber filled
RFI-shielded and antistatic

Size:

4.5"H x 4"W x 2"D
11.4 cm H x 10.2 cm W x 5 cm D

Weight: 16 oz (453 g)

Operating Instructions



Green LED only indicates normal pump running
Orange LED is lit when flow cannot be maintained.
Red LED is lit for low battery condition
press SET button and hold while using the Arrow keys to adjust flow.

ON/OFF button

Press to turn ON, pump will begin running at previous set flow rate.
Press and hold for 3 seconds to turn off.

Performance Profile

Accuracy: +/- 5% of the flow set point

Constant Flow Range: Minimum of 8 hours of operation

- 1.5 LPM up to 15 inches of water backpressure
- 2.0 LPM up to 35 inches of water backpressure
- 2.5 LPM up to 30 inches of water backpressure
- 3.0 LPM up to 20 inches of water backpressure
- 4.0 LPM up to 8 inches of water backpressure

Pump Run time with sampling filters

Filter type and size	Flow Rate in LPM				
	1.5	2.0	2.5	3.0	4.0
37mm 0.8u PVC	19 hr	15 hr	14 hr	12 hr	10 hr
37 mm 0.8u MCE	19 hr	15 hr	13 hr	11 hr	9 hr
25 mm 0.8u MCE	15 hr	10 hr	9 hr	8 hr	—
25 mm 0.45u MCE	10 hr	7.5 hr	—	—	—

Pump Kits

- APB-926000 **Buck-Libra™, Model L-4, Pump Kit**, includes pump w/ Standard battery pack and 120VAC charger, Luer hose adapter, shirt/hose clip, 3 ft vinyl hose and Operating Manual. Kit does not include Universal Low Flow Holder for sorbent tubes.
- APB-926020 **Buck-Libra™, Model L-4, Pump Kit**, includes pump w/ Standard battery pack and 240VAC charger, Luer hose adapter, shirt/hose clip, 3 ft vinyl hose and Operating Manual. Kit does not include Universal Low Flow Holder for sorbent tubes.
- APB-942600 **Buck-Libra™, Model L-4, 5-Pack KIT**, includes 5 each: (Buck-Libra™ pumps w/ Standard battery packs, Luer hose adapter, shirt/hose clip, 3 ft. vinyl hose), two Operating Manuals, one *FastFive™*Charger 90—230VAC, in durable carrying case that accommodates additional accessories. Kit does not include Universal Low Flow Holders for sorbent tubes.

Pump Chargers* (not included with Pump Kits unless specified)

- APB-601900 *FastOne™*Charger Single Station, 100—230VAC, for VSS, Basic and Libra Series pumps, CE, UL, CSA,GS/TUV
- APB-605900 *FastFive™*Charger Five Station, 100—230VAC, for VSS, Basic and Libra Series pumps, CE, UL, CSA, GS/TUV
- APB-603900 Standard Charger Single Station, 120VAC, for VSS, Basic and Libra Series pumps
- APB-603910 Standard Charger Single Station, 230VAC, for VSS, Basic and Libra Series pumps

Accessories (not included with Pump Kits unless specified)

- APB-109030 Universal Low Flow Holder, allows adjustable sample flows 5 to 800 cc/min in using *mini-BUCK™* Calibrator, includes Standard Tube Cover (APB-109022)
- APB-109032 Non-Adjustable Low Flow Holder, allows sample flows greater than 800 cc/min in Constant Flow Mode, includes Standard Tube Cover (APB-109022)
- APB-129022 NiCad Battery, Standard Pack, ETL, cETL, CE, rechargeable, for VSS, Basic and Libra Series pumps
- APB-129020 NiCad Battery, Standard Pack, EX, D, CE, rechargeable, for VSS, Basic and Libra Series pumps
- APB-129322 NiCad Battery, Triple Pack, ETL, cETL, CE, rechargeable, for extended run times with VSS, Basic and Libra Series pumps
- APB-129320 NiCad Battery, Triple Pack, EX, D, CE, rechargeable, for extended run times with VSS, Basic and Libra Series pumps
- APB-109060 Nylon pouch for VSS-1, VSS-5 and Basic-1, Basic-5, and Libra L-4 pumps, includes belt loop and shoulder strap, Clear plastic window on front flap, washable

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5-3-2004