

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

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 to 800 cc/m, with Universal Low Flow Sorbent Tube Holder
- High backpressure capable for 25mm 0.45 μ micron asbestos filters
- Built in washable stainless steel 100 micron filter for economy of use
- One year warranty



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



Operating Instructions

Performance Profile

Flow Range: 5-4000 cc/min

5-800cc/min with Universal Low Flow Holder

Compensation Range:

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

Accuracy:

+/- 5% of the flow set point

Run Times:

| Filter | Flow Rate cc/min | | | |
|----------------|------------------|------|------|------|
| | 2000 | 2500 | 3000 | 4000 |
| 37mm 0.8µ PVC | 23Hr | 19Hr | 18Hr | 16Hr |
| 37mm 0.8µ MCE | 21Hr | 16Hr | 16Hr | 13Hr |
| 25mm 0.8µ MCE | 15Hr | 12Hr | 10Hr | |
| 25mm 0.45µ MCE | 11Hr | 10Hr | | |



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.



ON green LED

FAULT orange LED is lit when flow cannot be maintained.

BATTERY red LED is lit for low battery condition.

SET button is to be pressed while using the arrow keys to adjust flow.

Specifications

Power Supply:

Single Pack, NiMH Batteries: 4.8V, 2.15 Ah
Triple Pack, NiMH Batteries 4.8V, 6.45 Ah

Recharge Time:

| Battery | QuickOne™ | QuickFive™ | Standard |
|-------------|-----------|------------|----------|
| Single Pack | 1Hr | 1Hr | 16Hr |
| Triple Pack | 3Hr | 6Hr | |

Quick-Chargers: input voltage 100 to 240 VAC

Approvals: CE EMC Directive (EMCD) 89/336/EEC

Temperature:

| | | |
|-----------|---------------|---------------|
| Operating | 32°F to 113°F | (0°C to 40°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: 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 (453g)

| PRODUCT | DESCRIPTION |
|------------|--|
| APB-926000 | *BUCK <i>Libra</i> ™ L-4 Pump Kit |
| APB-942600 | **BUCK <i>Libra</i> ™ L-4, 5-pack Pump Kit |
| APB-109030 | Adjustable Universal Low Flow Holder |

Rev. 01-2006

* Pump kit includes pump with a single pack NiMH battery, standard 120VAC battery charger (APB- 926020 comes with 230VAC charger), Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose and operating manual. Kit does not include universal low flow holder for sorbent tubes.

** Pump 5-pack kit includes 5 each: pumps with single 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 1500 Pelican case with lifetime warranty that accommodates additional accessories. Kit does not include universal low flow holder for sorbent tubes.