



BUCK Libra™ L-4 Pump

Tech Brief
T100-704

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 LPML 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 LEDs 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 0.45p micron asbestos filters
- Built in washable stainless steel 100 micron filter for economy of use
- One year warranty



Rev. 5.17.2018



BUCK Libra™ - L4 Pump

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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:

Flow Rate cc/min

Filter	2000	2500	3000	4000
37mm 0.8µ PVC	23 Hrs	19 Hrs	18 Hrs	16 Hrs
37mm 0.8µ MCE	18 Hrs	16 Hrs	15 Hrs	12 Hrs
25mm 0.8µ MCE	12 Hrs	10 Hrs	8 Hrs	
25mm 0.45µ MCE	10 Hrs	8 Hrs		

Operating Instructions



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



SET button is to be pressed while using the arrow keys

ON green LED
FAULT orange LED is lit when flow cannot be maintained.
BATTERY red LED is lit for low battery condition.

Specifications

Power Supply:

Single Pack, NiMH Batteries: 4.8V, 2.15 Ah

Triple Pack, NiMH Batteries 4.8V, 6.45 Ah

Recharge Time:

Charger

Battery	QuickFive ⁱⁱ	Standard Smart Charger
Single Pack	2Hrs	2.5Hrs
Triple Pack	6Hrs	6-7Hrs

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, RF/EMI-shielded

Size: 4.5+H x 4+W x 2+D

(11.4cm H x 10.2cm W x 5cm D)

Weight: 16oz (453g)

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

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* Pump kit includes pump with a single pack NiMH battery, standard smart 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 case that accommodates additional accessories. Kit does not include universal low flow holder for sorbent tubes.

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