



BUCK *Libra Plus*™ LP-5 Pump

Tech Brief
T100-805

The *BUCK Libra Plus* LP-5 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.

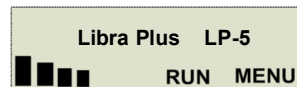
The purpose of this pump is to draw air contaminants in through a sampling media such as 25 and 37mm filter cassettes, bubble impingers, long-duration color detector tubes to gauge personnel exposure to gases, vapors, particulates, aerosols, etc.

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. The programmable timer counts down the sampling time and automatically turns the pump off.

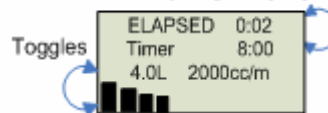


Main Display



Flow Range 0.8 to 5 LPM
Low Flows 5-799 cc/min
with Low Flow Holder

Sampling Display



Features:

- Runs 20 + hours @ 2.0 LPM (37 mm 0.8µ filter)
- Constant flow, high back pressure capability for 25mm 0.45µ asbestos filters
- Accuracy: ± 5% of compensation range
- Flows up to 5 LPM
- Flow compensation for filter plugging and battery voltage
- Dual flow range easily handles Impingers, cyclones, and tubes
- %Auto-restart+within one minute of a flow fault
- Memory free rechargeable single pack battery and optional extended run with use of triple packs
- Battery pack rechargeable while attached or separately
- Compact, rugged, and quiet
- Stainless steel belt clip with built-in tripod connector
- Key pad lock system



Rev. 1.1.2019



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Performance Profile

Model: LP-5
Flow Range: 0.8-5 LPM (800-5000 cc/min)
5- 799 cc/min
With Universal Low Flow Holder
P.N. APB-109030

Compensation Range:
5000 cc/min up to 10+water back pressure
4000 cc/min up to 20+water back pressure
3000 cc/min up to 40+water back pressure
2000 cc/min up to 50+water back pressure
1000 cc/min up to 30+water back pressure
800 cc/min up to 15+water back pressure

Accuracy:
± 5% of Compensation Range

Run Time (hrs) at different backpressure and flow rate (cc/min)	Backpressure (inches of water)						
Flow Rate	5+	10+	15+	20+	30+	40+	50+
1000	25hr	19hr	15hr	12hr	8hr		
2000	20hr	16hr	14hr	11hr	7hr	5hr	3hr
3000	15hr	12hr	9hr	7hr	5hr	3hr	
4000	13hr	9hr	7hr	6hr			
5000	9hr	6hr					

Low Flow using Universal Low Flow Holder
5 to 799cc/min 8 hours

Data Storage: Last flow rate, elapsed clock time, and accumulated volume is saved into memory until cleared for next sampling.

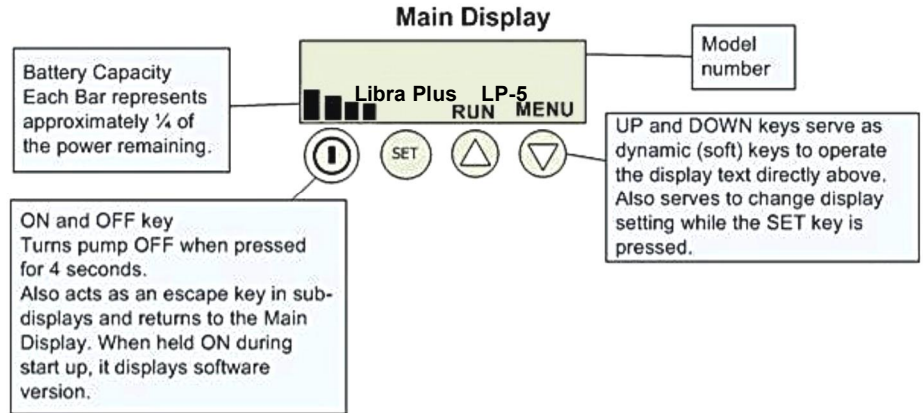
Display: Backlit LCD with 2 lines of 16 Characters

Normal Operation: Battery Level, Flow Rate, Elapsed Time, Volume Collected, Timer

Flow Fault Displays: Flow Fault, or Filter Off

Operating Instructions

LIBRA PLUS OPERATION DISPLAYS



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 [®]	Standard Smart Charger
Single Pack	2-3Hrs	2.5Hrs
Triple Pack	7-8Hrs	7-8Hrs

Quick-Chargers: Input Voltage 100 to 240 VAC

Standard-Chargers: Input Voltage 120 VAC or 230 VAC

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

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

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

Weight: 19 oz (539g)

PRODUCT	DESCRIPTION
APB-906200	*BUCK <i>Libra Plus</i> LP-5 Pump Kit
APB-946200	**BUCK <i>Libra Plus</i> LP-5, 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, Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose and operating manual. Universal low flow holder for sorbent tubes sold separately.

** 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. Universal low flow holder for sorbent tubes sold separately.

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