

The *BUCK Libra Plus*™ LP-7 Personal Air Sampler is a modified version of the *BUCK Libra Plus*™ LP-5 with a more powerful pump. This pump range is 3 to 7 LPM. This range allows application of the Micro5 MicroCell spore trap impactor cassette. A special 5 minute timer in the Main Menu allows for a rapid start-up for the user.

The purpose of this pump is to draw air contaminants in through air sampling media such as 25 and 37mm filter cassettes and mold trap cassettes, to gauge personnel exposure to particulates, aerosols, mold, etc.

This personal air sampler consists of a pump contained in a high impact steel fiber filled Lexan, antistatic, and RFI/EMI-shielded case, exclusive and proprietary electronic circuit board for constant flow control, an LCD display with 2 lines of 16 characters, a single diaphragm pump mechanism, and a rechargeable NiMH battery pack.

Other features include elapsed time, flow rate, and accumulated volume. The built in timer counts down the sampling time up to 40 hours, and automatically turns the pump off. All data is saved, and cleared, for the next sample under the MENU "Clear All Data" option.

#### Features:

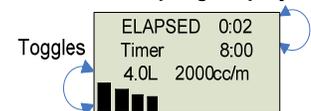
- Built-in 5 minute countdown timer from Main Menu
- Accuracy:  $\pm 5\%$  of compensation range
- Flows up to 7 LPM for special spore trap requirements
- Flow compensation for filter plugging and battery voltage
- "Auto-restart" within one minute of a flow fault
- Two-hour rechargeable single pack batteries and optional extended run with use of triple packs
- Battery pack rechargeable while attached or separately
- Compact, rugged, and quiet
- No tools required to change flow rates.
- Stainless steel belt clip with built-in tripod connector
- Internal washable stainless steel 100 micron filter
- Key pad lock system
- One year warranty



**Flow Range 3 to 7 LPM**



#### Sampling Display



Rev. 01-2006

**Performance Profile** 

Flow Range: 3.0 to 7.0 LPM

Compensation Range:

- 3.00 LPM up to 20" water back pressure
- 4.00 LPM up to 55": water back pressure
- 5.00 LPM up to 35": water back pressure
- 6.00 LPM up to 25": water back pressure
- 7.00 LPM up to 5": water back pressure

Accuracy:

± 5% of Compensation Range

Run Times:

Backpressure Inches of water	Flow Rate 3	Flow Rate 4	Flow Rate 5	Flow Rate 6	Flow Rate 7
3"	21 Hr	13 Hr	9 Hr	7 Hr	5 Hr
5"	20 Hr	13 Hr	9 Hr	6 Hr	5 Hr
10"	17 Hr	11 Hr	7 Hr	5 Hr	
15"	14 Hr	10 Hr	6 Hr	4 Hr	
20"	12 Hr	8 Hr	6 Hr	4 Hr	
25"		7 Hr	5 Hr	4 Hr	
30"		7 Hr	5 Hr		
35"		6 Hr	4 Hr		

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

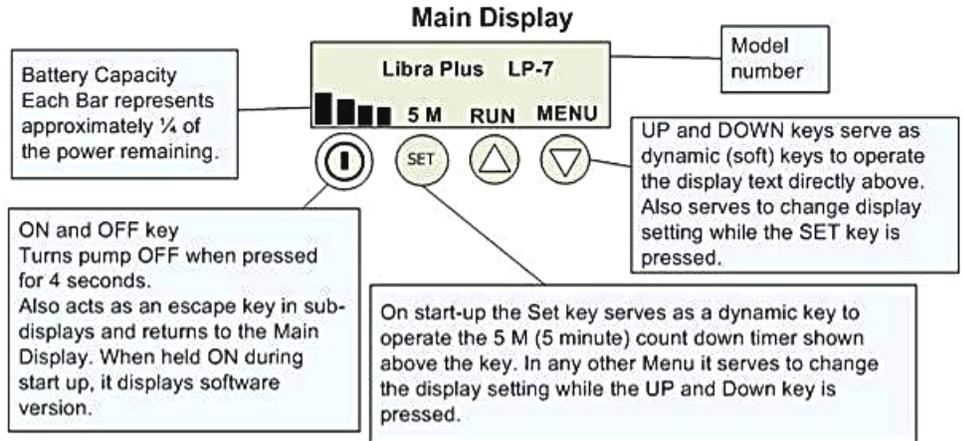
Display: Backlit LCD with 2 lines of 16 Characters

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:**

	Battery	QuickOne™	QuickFive™	Standard
Single Pack		2Hr	2Hr	16Hr
Triple Pack		6Hr	6Hr	

**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  
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:** 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-906300	*BUCK <i>Libra Plus</i> ™ LP-7 Pump Kit, 120V
APB-926320	*BUCK <i>Libra Plus</i> ™ LP-7 Pump Kit, 230V
APB-942507	**BUCK <i>Libra Plus</i> ™ LP-7, 5-pack Pump Kit

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\* Pump kit includes pump with a single pack NiMH battery, standard 120VAC battery charger (APB-926320 comes with 230VAC charger), Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose and operating manual.

\*\* 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.