BUCK-VSS™ 1 Pump
Validated Sampling System

TechBrief
T100-501

The *BUCK VSS-1™* (*V*alidated *S*ampling *S*ystem) is the smartest, most powerful low-flow data-logging pump for industrial hygiene, personal and area sampling, environmental sampling, and occupational health studies. Its advanced design, easy programmability, advanced operating software, and powerful sampling performance combine to give you everything you need in one pump. You can link a sample number, pump serial number, calibrator serial number, calibration data, and performance data to prove a valid sample. And one-hour recharging, interchangeable battery packs, built-in battery maintenance software, and confident sampling in Constant Pressure mode (sorbent tubes) without tools or accessories means you save time and money while ensuring an efficient, valid sample.

A Powerful Low Flow Data-Logging Sampling Pump for dedicated Low Flow (5 to 600 cc/min) applications

Features:

- Validated Sample System maintains sample integrity
- Compact, Lightweight, and Ultra-quiet
- Automatic Data Logging holds up to 10 days operating history
- Print Pump Sampling History Direct to Printer
- EZ-Backlit™ Display for fast set-up and operation
- Programmable in five languages:
  English, Spanish, French, German, and Dutch
- Constant Flow Compensation up to 60" water back pressure
- One-hour rechargeable, interchangeable battery packs
- Fully programmable for "Duration" or "Start-Stop" operation
- Built-in Battery Maintenance program plus Battery Time Left display
- Automatically corrects for temperature and pressure changes
- Ideal for all sorbent tube and low-flow applications

Rev. 01-2006

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Phone: 800-330-2825 www.apbuck.com Fax: 407-851-8910

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Performance Profile

Flow Range: 5-600 cc/min
5-100 cc/min with Universal Low Flow Holder

Compensation Range:
600 cc/min up to 30" water back pressure
400 cc/min up to 60": water back pressure
200 cc/min up to 60": water back pressure
100 cc/min up to 60": water back pressure

Accuracy:
5% or less of Compensation Range

Run Times: **cc/min**

	600	400	200	100
2"	9.5Hr	12.1Hr	16.1Hr	19Hr
5"	8.9Hr	11.5Hr	15.3Hr	18.5Hr
10"	8.5Hr	10.9Hr	14.1Hr	16.7Hr
20"	7.9Hr	10Hr	12.1Hr	14Hr
30"	6.7Hr	8.9Hr	10.8Hr	12Hr
40"		8.4Hr	9.4Hr	10.2Hr
50"		7.8Hr	8.8Hr	9.5Hr
60"		7.4Hr	7.9Hr	8.6Hr

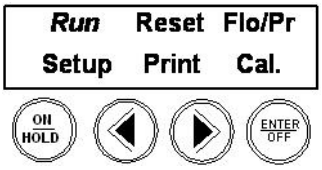
Data Storage: Last flow rate, elapsed clock time and accumulated volume is saved into memory until cleared for next sampling.

Display: Backlit LCD with 2 lines by 16 Characters

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

Flow Fault Displays: Flow Fault, or Filter Off

Operating Instructions



Menus. A 6-function "Main Menu : (RUN, RESET, FLO/PR, SETUP, PRINT, CAL) provides the ability to select sample flow rate, clear previous data and pump settings, put pump on "HOLD", and turn the pump off, all through direct entry or various sub-Menus. Additional Menus allow Timing Routines for "Delayed Start" and "Auto Off", and types of Flow Control.

Specifications

Power Supply:
Single Pack, NiCad Batteries: 4.8V, 1.5 aH
Triple Pack, NiCad Batteries 4.8V, 4.5 aH

Recharge Time:

Battery	*FastOne*™	Charger: *FastFive*™	Standard
Single Pack	1Hr	2Hr	16Hr
Triple Pack	3Hr	6Hr	

Fast-Chargers: input voltage 100 to 240 VAC
Standard-Chargers: Input Voltage 120 VAC or 230 VAC
Approvals:

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-927000	**BUCK-VSS*™ 1 Pump Kit
APB-942700	***BUCK-VSS*™ 1, 5-pack Pump Kit
APB-109030	Adjustable Universal Low Flow Holder

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* Pump kit includes pump with a single pack NiCad battery, standard 120 VAC battery charger, adjustable low flow holder, Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose and operating manual.

** Pump 5-pack includes 5 each: pumps with single pack NiCad batteries, adjustable low flow holder, Luer hose adapter, shirt/hose clip, and 3 feet of vinyl hose. Also included: two operating manuals, one *FastFive*™ charger 100-240 VAC, and a durable hard plastic Pelican 1500 case with a lifetime warranty that accommodates additional accessories.

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