

# F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

## ECONOAIR Premium L-5PTR



The F&J ECONOAIR Premium L-5PTR 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 L-5PTR can be programmed for timing routine activated sampling.

The purpose of this pump is to draw air contaminants in through a sampling media such as 25 and 37 mm filter cassettes, bubble impingers, long-duration color detector tubes; to gauge personnel exposure to gases, vapors, particulates, aerosols, etc. The operator can select to report flow rates and volumes to ambient conditions or to a Reference Temperature and Pressure.

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 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 next sample under the MENU "Clear All Data" option.

### Features:

- Runs 20 hours @ 2.0 LPM (37 mm 0.8 $\mu$  filter)
- Increased back pressure capability, up to 50" of w.c. @ 2 LPM
- Accuracy:  $\pm$  5% of compensation range
- High backpressure capable for 25 mm 0.45 $\mu$  asbestos filters
- 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
- 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
- Stainless steel belt clip with built-in tripod connector
- Key pad lock system
- Timing routine activated sampling
- Correction of flow rates and volumes to a Reference Temperature and Pressure



## Performance Profile: Model: L-5PTR

**Flow Range:** 0.8 – 5 LPM (800-5000 cc/min)  
5-800 cc/min with Universal Low Flow Holder

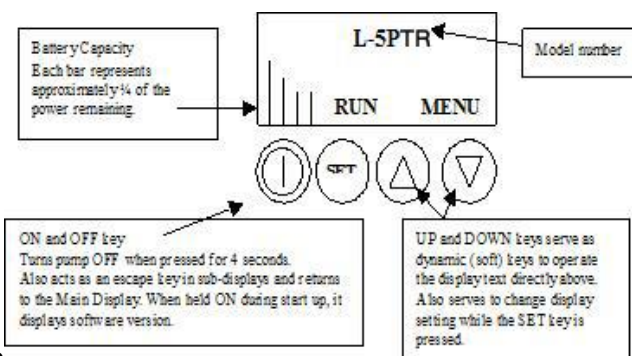
### Compensation Range:

5000 cc/min up to 10" water back pressure  
4000 cc/min up to 20" water back pressure  
3000 cc/min up to 30" water back pressure  
2000 cc/min up to 50" water back pressure  
1000 cc/min up to 50" water back pressure  
800 cc/min up to 15" water back pressure

**Accuracy:** ± 5% of Compensation Range

## L-5PTR OPERATION DISPLAYS

### Main Display



Run time (hrs) at different back pressure and flow rate

Flow Rate (cc/min)	Backpressure (inches of water)							
	5"	10"	15"	20"	30"	40"	50"	60"
1000	27hr	21hr	17hr	14hr	10hr			
2000	19hr	17hr	15hr	13hr	9hr	7hr	5hr	3hr
3000	17hr	14hr	11hr	9hr	7hr	5hr		
4000	15hr	11hr	9hr	8hr	5hr			
5000	11hr	8hr	6hr					

Low Flow using Universal Low Flow Holder: 5 – 800 cc/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

## Specifications

**Power Supply:** Single Pack, NiMH Batteries: 4.8V, 2.15 Ah

Triple Pack, NiMH Batteries: 4.8B, 6.45 Ah

### Recharge Time:

Battery	Charger		
	QuickOne	QuickFive	Standardization
Single Pack	2 Hr	2 Hr	16 Hr
Triple Pck	6 Hr	6 Hr	

**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 × 4"W × 2"D  
(11.4 cm H × 10.2 cm W × 5 cm D)

**Weight:** 19 oz (539 g)

PRODUCT	DESCRIPTION
906200	L-5PTR Pump Kit
946200	L-5PTR, 5-pack Pump Kit
109030	Adjustable Universal Low Flow Holder

\* Pump kit includes pump with a single pack NiMH battery, standard 120VAC battery 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.