

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 0.8μ 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 0.45μ 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

Tel: 352.680.1177

- Timing routine activated sampling
- Correction of flow rates and volumes to a Reference Temperature and Pressure
- Premium models are capable of Data Logging. PC Software and for download of
- data requires optional PC link cable
- The PC link with Windows 10 and Windows 11 operating system using the RS232 port and the PC link cable
- Delayed start time with auto shut off feature is available upon request



Rev.: 20 February 2025

ECONOAIR PREMIUM L-5PTR

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

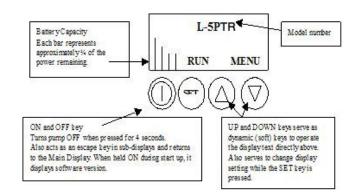
800 cc/min up to 15" water back pressure

Accuracy: ± 5% of Compensation Range

Run time (hrs) at different back pressure and flow* rate (cc/min) Backpressure (inches of water)

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Flow Rate	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					

L-5PTR OPERATION DISPLAYS Main Display



Low Flow using Universal Low Flow Holder: 5 - 800 cc/min8 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	
Chargers.	Innut Voltag	e 100 to 240 V	ΔC

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 122°F (0°C to 50°C) Storage 32°F to 122°F (0°C to 50°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

 $(11.4 \text{ cm H} \times 10.2 \text{ cm W} \times 5 \text{ cm D})$

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 PTRKIT Data Logging, PC software and cable

- 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 NMH batteries, Luer hose adapter, shirt/hose clip and 3 feet of vinyl hose. Also included is two oeprating manuals, One QuickFive charger 100-240VAC and a durable hard plastic 1500 Pelican case with lifetime warranty that accommodates additional accessories. Kit does not inloude Universal Low Flow Holder for sorbent tubes.

^{*} Without Data Logging Feature Activated

INSTRUCTIONS TO ENABLE DATA LOGGING AND DOWNLOAD LOGS

F&J L-XPTR Series is capable of storing seven days of sampling data in the internal memory if data is logged every minute. To enable data logging follow the instructions below.

- 1. Set flow and calibrate the pump as mentioned in section 1.
- 2. In the main display, press Menu key (Down arrow) and scroll down to Log Sample Rate screen
- 3. By default log rate is Disabled. Press and Hold Set Key and Press UP arrow to enable log rate in the format of minutes . 1-255 mins.
- 4. Press ON key once to escape back to Main display or Down arrow to scroll through the menus and then to main display where sampling could be started by pressing RUN (UP arrow) and accumulate logs.

Requirements for Downloading Logged Data:

- 1. PC with Windows 10 or Windows 11 operating system and RS 232 port.
- 2. F&J PC Link Elite software package part no. 109101 (includes the PC link cable part no. 109048).

F&J PC Link Elite software package can be purchased from F&J.

F&J PC link cable 109048 needs to be connected to the RS232 port on the PC and the other end to the pump port . Pump needs to be turned on to make the connection.

If RS232 port is not present in the PC then a USB to RS232 adapter is required to make the connection. Check your lo-cal electronic store for this adapter and download the latest driver file to make this adapter work properly.

EXAMPLE OF LOGGED DATA

