



F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

12VDC POWERED AIR SAMPLER

— Digital Flowmeter Technology —

F&J Model DF-75L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting Lithium ion battery
- Battery Charging Circuit operable from Line Power Input
- Lightweight — 17.5 lbs. (8.0 kg)
- Maximum Flow: 65 to 75 LPM; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator



GENERAL DESCRIPTION:

F&J Model DF-75L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 14.8 VDC; 20 Ah Lithium ion battery, (2) line power, or (3) automobile cigarette lighter socket.

The DF-75L-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board battery is approximately ~ 6 - 8 hours utilizing 47 mm glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention.

Typical flow range is 30-75 SLPM (1.1 -2.6 SCFM).

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DF-75L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate:

≥ 75 LPM – Typical w/47 mm FP47M glass fiber media
 ~100 LPM Free Air Flow

Power Source:

Internal –
 14.8 VDC Battery Pack
 Lithium Ion; 20 Ah

External –
 Line Power; 100VAC or 250VAC
 Automobile Cigarette Lighter – 12VDC

Battery Charging System:

Internal System which charges from line Power.

Operating Time on Batteries:

6-8 hours @ 56 LPM w/FP-47M glass fiber media

Current Draw: 3 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 15.3 lbs. (7 kg)

Dimensions: 8”×9”×12” (20 × 23 × 30 cm)

Average dB: 62.8

Operating Temperature: 0°F to 122°F (-18°C to 50°C)

Display: Bright LED (6 character; 1.2 cm H)

Elapsed Time: DD:HH:MM up to 168 hours

Flow Control:

Adjustable from keypad between 30-75 LPM

Flow Accuracy: ±4.0% of Full Scale

Factory Settable Reference T and P

Classical STP	0°C, 1 ATM
Normal T and P	20°C, 1 ATM
Modified Normal T and P	70°F, 1 ATM
Standard Ambient T and P	25°C, 1 ATM

OPTIONS:

- Data Storage Device (P/N: 232FCDS)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

Standard Combination Filter Holders Available:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-05P	F&J Model B	2” or 50 mm
FJ-21P	F&J Model C	2” or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2” or 50 mm
FJ-53P	F&J Model M	47 mm

Available Engineering Units for Flow and Volume:

- sccm/ scc
- SLPM / SLP
- SCFM / SCF
- SCMH / SCM

Digital Flowmeter Keypad/Display

