



F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —

F&J Model DF-AB-75L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting 20 Ah Lithium ion battery
- Battery charging system operable from line power input
- Lightweight — ~21.5 lbs. (9.8 kg)
- Maximum flow: 75 LPM maximum; 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-AB-75L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah lithium ion battery, (2) line power, or (3) auxiliary DC connector (12 to 15 VDC).

The DF-AB-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 batteries 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. The air sampler is contained in a lightweight enclosure which is water tight. The unit can be carried very easily by its large, rugged plastic handle.

Typical flow range is 30 - 75 SLPM (2.6 SCFM) (depending on filter type).

DF-AB-75L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate:

≥ 75 LPM typical with FP47M glass fiber media
~100 LPM Free Air Flow

Power Source:

Internal – Lithium ion; 14.8 VDC/20 Ah Battery Pack
External – Line Power; 100VAC or 250VAC
Auxiliary port — 12 to 15 VDC

Battery Charging System:

Internal system which charges from line power.

Operating Time on Batteries:

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

Current Draw: ~3.0 A @ 75 LPM with FP47M

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 21.5 lbs. (9.8 kg) with battery
17.25 lbs. (8.1 kg) without battery

Dimensions: 17”L × 10.4”W × 13” H (43,2 × 26,4 × 33 cm)

Average dB: 70.3

Operating Temperature Range: 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)D
- 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:

SLPM / SLP
SCFM / SCF
SCMH / SCM

Digital Flowmeter Keypad/Display

