



F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

12VDC POWERED AIR SAMPLER

— Digital Flowmeter Technology —
F&J Model DF-75L-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - Automobile Cigarette Lighter
- Lightweight — ~11 lbs. (5 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



GENERAL DESCRIPTION:

F&J Model DF-75L-AC is a lightweight, small footprint, AC powered air sampling system operable from (1) line power or (2) a 12-15 VDC power source such as an automobile cigarette lighter socket.

The DF-75L-AC 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 8 - 10 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).

Rev.: 29 Feb. 2016

DF-75L-AC AC/DC 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 capacity

Power Source:

Line Power; 100VAC or 250VAC

Automobile Cigarette Lighter – 12VDC

Current Draw: 4 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 11 lbs. (5 kg)

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

Operating Temperature Ranges:

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
- 1 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

