

# F&J SPECIALTY PRODUCTS, INC.

## Low Flow AC/DC POWERED AIR SAMPLER

— Digital Flowmeter Technology —  
F&J Model DF-3L-BL-AC

### NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
  - Line Power (100VAC – 250VAC)
  - External 12VDC Source
- Lightweight — ~5.5 lbs. (2.5 kg)
- High Flow — 3 LPM Maximum
- 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-3L-BL-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power, or (2) a 12 VDC power source such as solar panels or other alternative energy sources.

The DF-3L-BL-AC is well suited for alternative energy air sampling activities where users do not know whether line power will be available. The unit may be operated from solar power or wind power source through either the AC input or DC input.

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 .8 - 3 SLPM (800 -3000 sccm).

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# DF-3L-BL-AC AC/DC Powered Air Sampler Specifications

**Pump Type:** Diaphragm; high efficiency

**Motor Type:** 12VDC PWM

**Maximum Flowrate:** 3 LPM

**Power Source:**

Line Power; 100VAC to 250VAC

External 12VDC Source

**Fuse Protection:** 2A

**Current Draw:** 1 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable metal

**Weight:** 5.5 lbs. (2.5 kg)

**Dimensions:** 9"×10"×10" (23 × 25 × 25 cm)

**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 1-5 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)

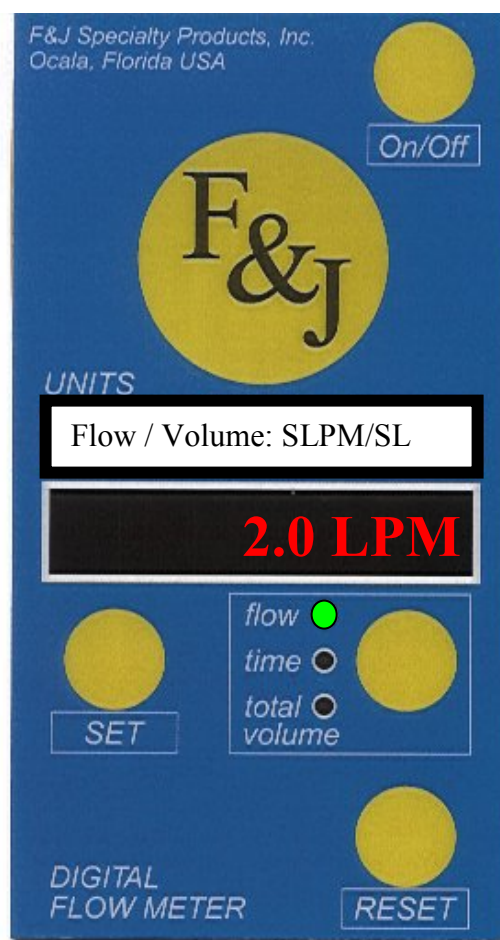
**Standard Combination Filter Holders Available:**

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

**Digital Flowmeter Keypad/Display**



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