

F&J SPECIALTY PRODUCTS, INC.

Low Flow AC/DC POWERED AIR SAMPLER

— Digital Flowmeter Technology —

F&J Model DF-3L-BL-8

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - External 12VDC Source
- Long-lasting Nickel Metal Hydride Batteries
- Battery Charging Circuit operable from Line Power Input
- Lightweight — ~7 lbs. (3.2 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
- Battery Life Indicator



GENERAL DESCRIPTION:

F&J Model DF-3L-BL-8 is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 4500 mAh NiMH batteries, (2) line power, or (3) automobile cigarette lighter socket.

The DF-3L-BL-8 is well suited for tritium sampling activities from line power or where users do not have line power available. Typical operating time from on-board batteries is greater than 8 hours utilizing an impinge system.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility. The set flowrate is maintained automatically and does not require operator attention. The air sampler provides operator selectable automatic shut off on time or volume

Typical flow range is .8 - 3 SLPM (800 -3000 sccm).

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DF-3L-BL-8 Battery Powered Air Sampler Specifications

Pump Type: Diaphragm; high efficiency

Motor Type: 12VDC PWM

Maximum Flowrate: 3 LPM

Power Source:

Internal – 12VDC Battery Pack

NiMH; 12VDC/4500 mA_H

External –

Line Power; 100VAC to 250VAC

External 12VDC Source

Battery Charging System:

Internal System which charges from line Power.

Operating Time on Batteries: > 8 hours

Fuse Protection: 2A

Current Draw: 1 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 7 lbs. (3.2 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 0.8 to 3 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)

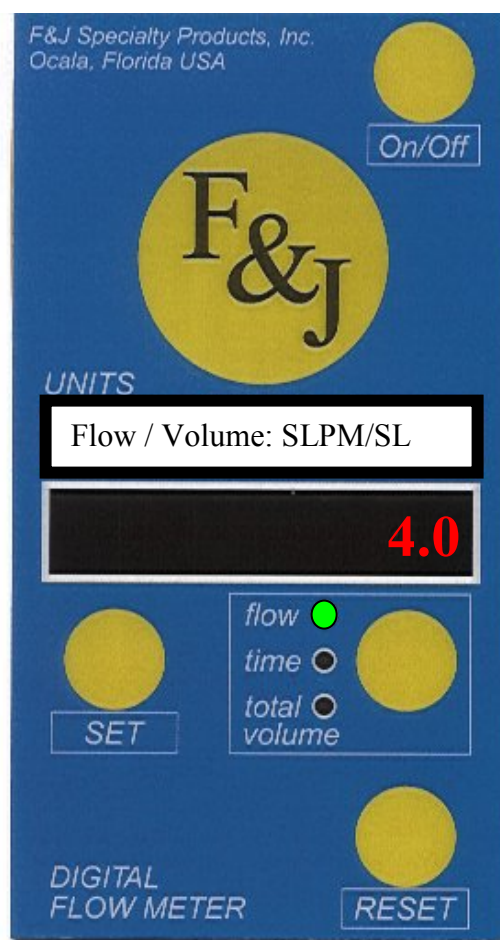
Standard Combination Filter Holders Available:

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:

sccm/scc
SLPM / SLP
SCFM / SCF

Digital Flowmeter Keypad/Display



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