



# F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

## EMERGENCY RESPONSE AIR SAMPLING SYSTEM DIGITAL FLOW METER TECHNOLOGY F&J MODEL DF-ABM-40L-AC

### NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
  - Line Power (100VAC – 250VAC)
  - Automobile Cigarette Lighter
  - LIBATBANK-12V
- Lightweight — 10 lbs. ( 4.54 kg)
- Maximum Flow 35 to 40 SLPM 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
- Brushless motor (12 VDC)
- Data Download via Bluetooth with Optional Bluetooth Dongle for PC Device



**Shown with optional filter holder**

### NOTABLE FEATURES:

F&J Model DF-ABM-40L-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power, (2) an external 12-15 VDC power source or (3) from the F&J LIBATBANK-12V.

The DF-ABM-40L-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 a 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. The air sampler is contained in a rugged, metal, small dimensioned enclosure which is water tight. The unit can be carried very easily by its metal handle.

Typical flow range is 10 - 40 SLPM (0.3 –1.41 SCFM).

The air sampler is also equipped with internal data storage that allows the user to download the sampling data as a .csv file for easy data analysis.

REV: 11 May 2023

# DF-ABM-40-AC AC/DC Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Motor:** 12 VDC brushless motor

**Maximum Flowrate:** 40 SLPM typical  
with 47 mm glass fiber media (98% DOP efficiency)

**Power Source:**  
Line Power; 100VAC or 250VAC  
Vehicle Cigarette Lighter – 12VDC  
LIBATBANK-12V

**Current Draw:** 1.5 A maximum

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

**Handle:** Durable metal

**Weight:** 10lbs. ( 4.54kg)

**Dimensions:** 13.5 "L × 6.13"W × 7.75 " H  
( 34.29×15.57×19.69 cm)

**Operating Temperature Range:**  
18°F-122°F (-10°C-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 10-35 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:

- Bluetooth Dongle for PC Device

## 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

