

F&J SPECIALTY PRODUCTS, INC.

F&J ELITE DIGITAL LIGHT (EDL) AIR SAMPLER

Model DF-EDL-300WE-HT

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Lightweight: ~18 lbs. (8.2 kg)
- Powerful: Flow rate to 300 LPM
- Very low maintenance
- Automatic Flow Control
- Operator selectable Ambient or Reference flow T and P Conditions
- Auto shut-off on time or volume
- RS232 Communication port
- Brushless motor
- Operation in high ambient temperatures



“Lightweight: ~ 18 lbs.”

GENERAL DESCRIPTION:

F&J Model DF-EDL-300WE-HT is a powerful small foot print light weight AC/DC powered air sampling system operable from (1) line power or (2) an optional 24VDC external power source. This powerful air sampler is the lightest weight low volume air sampler available having similar flow rate capacity.

This model is designed to operate in ambient temperature conditions as high as 50°C.

The DF-EDL-300WE-HT air sampler is well suited for various types of air sampling application such as REMP, plant emissions and work area monitoring programs. It can also be utilized in remote air sampling applications powered from solar panels or wind turbines with the optional external 24 VDC circuitry and connector.

The F&J Digital Flowmeter technology provides maximum flexibility, flow rate normalization, automatic flow control and opportunities for control by a PC device through the RS232 communication port.

The typical operating flow range is 30 - 250 SLPM (1.1 – 8.8 SCFM). Actual flow range implemented will depend the filter(s) utilized by the customer.

Rev.: 21 April 2020

DF-EDL-300WE-HT AC/DC Air Sampler Specifications

Pump Type: Centrifugal blower

Maximum Flowrate:

250 LPM - Typical FP47M glass fiber filter media

Power Source:

Line Power; 220VAC to 240VAC
Optional External DC Source – 24VDC

Maximum Current Draw: 16 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 18 lbs. (8.2 kg)

Dimensions: 10" × 11" × 14" (26 × 28 × 36 cm)

Operating Temperature Range:

14°F to 122°F (-10°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 30-250 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)
- Optional 24VDC connector (P/N: 24VDCOPT)
- Ruggedized Cellular Phone System (P/N: CASRPS-DFM)

Standard Combination Filter Holders

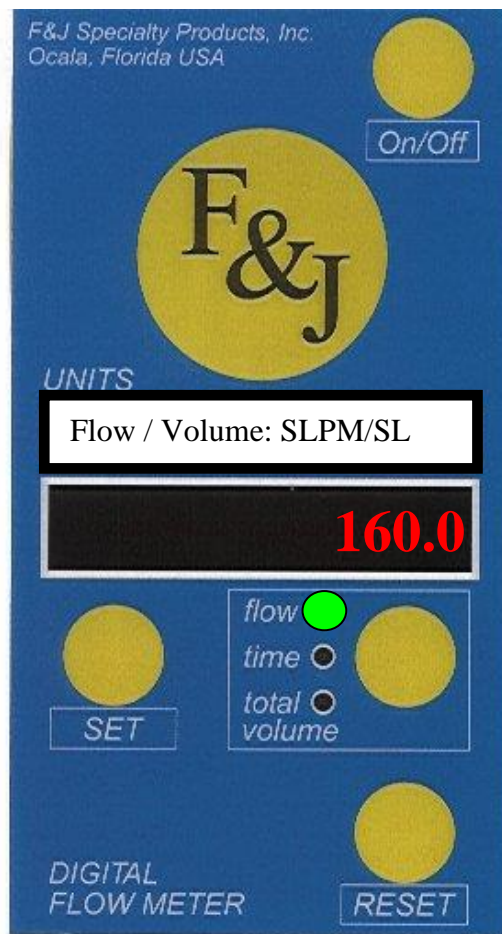
Available:

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
SCMM/SCM

Digital Flowmeter Keypad/Display



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Tel: 352/680-1177 • Fax: 352/680-1454 • Email: fandj@fjspecialty.com

DF-EDL-300WE-HT AC/DC Air Sampler Specifications

Typical Maximum Flow Rates for Various Filter Media Combinations

Filter Media	Flow Rate (SCFM)	Flow Rate (SLPM)	Media D.P.(“Hg)	Media D.P.(“H ₂ O)
FP47	4.91	140	6.2	84.0
FP47M	7.91	224	4.3	58.8
FP47M2	10.4	296	3.0	40.2
FP47 & TE2C	3.71	105	6.9	93.5
FP47M & TE2C	5.47	155	6.1	83.0
FP47M & TE3C	5.90	167	6.6	90.0
FP47M2 & TE1C	7.81	221.1	3.8	51.40
FP20M	8.25	233.7	3.6	48.9
FP20M & TE2C	5.68	160.8	5.7	77.8
FP20M & TE3C	6.69	189.5	4.8	64.8
FP40M	10.47	390	1.9	25.09

