



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

DIGITAL FLOWMETER HIGH VOLUME AIR SAMPLER F&J MODEL DF8400 and DF8400E



“Thermally Protected Motor”

NOTABLE FEATURES:

- State-of-the-art Microprocessor Controlled Electronics
- Accurate flow sensor
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Very accurate elapsed time meter
- Very durable polypropylene plastic housing
- Lightweight <9 lbs. (4.1 kg)
- Variable speed control up to full flow
- Thermally Protected Motor
- Powerful 1.4 H.P. dual ball bearing motor
- Bright LED display
- Standard 4-inch (102 mm) diameter filter holder; also accommodates optional 8”×10” (20.3 × 25.4 cm) filter holder w/adaptor
- 120Volt or 230Volt models available

GENERAL DESCRIPTION:

The DF8400 (120VAC) and the DF8400E (230VAC) Digital Flowmeter Series air samplers are high volume air samplers with a two stage, thermally protected electric motor driven vacuum blower and a 7-foot long electrical cord. The motor driven blower is mounted in a very durable lightweight plastic polypropylene housing, mounted to a sturdy base plate, having non-skid rubber feet. The flow rate is adjustable by use of a motor speed controller.

The DF8400 has a bright LED display for flowrate, elapsed time and accumulated volume and a four button keypad.

Various flow and volume engineering units are available for selection.

Factory Settable Reference T and P are:

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

DF8400 (120VAC) and DF8400E (230VAC) High Volume Air Sampler

SPECIFICATIONS:

Pump Type:

Two stage, through flow, thermally protected 1.4 H.P., dual ball bearing vacuum blower motor.

Power Requirements:

DF8400 – 110-120VAC; 50/60Hz; single phase
DF8400E – 220-240VAC; 50/60Hz; single phase

Power Cord:

7'; 18 gauge, 3 conductor

Circuit Breaker:

10 amp (able to reset)

Flow Control

Variable Speed up to full flow

Dimensions:

15 ¾"L × 9"W × 11"H
 (40L × 22.9W × 27.9 cm H)

Weight:

11 lbs. (5 kg)

Handle:

Durable plastic/metal

Particulate Holder:

A durable plastic 4-inch (102 mm) diameter holder is standard

Digital Flowmeter Displays:

Flowrate:	Corrected to STP
Elapsed Time:	hhh:mm
Volume:	Corrected to STP

Charcoal

Filter

TE1C
 TE2C
 TE3C

Filter

Paper

FP47M
 FP47M
 FP47M

Flow Rate

(CFM) (LPM)

9	250
6	170
7	198

FJ304 Combination Filter Holder:

Charcoal Filter

Filter

TE3.1
 TE3.1
 TE33.1
 TE33.1

Flow Rate

(CFM) (LPM)

---	36	1019
FP40M	18	509
---	23	651
FP40M	14	396

Various Filter Paper Grades

4" Diameter

Grade	(CFM)	(LPM)
FP40	28	792
FP40M	48	1358
213340	47	1330
AE40	27	764

8"×10" Dimension

Grade	(CFM)	(LPM)
FP810	64	1811
AE810	62	1755

Available Flow/Volume Unit Combinations:

<u>Flow</u>	<u>Volume</u>
SLPM	SL
SCMH	SCM
SCFM	SCF

OPTIONS:

Model HV-1SA or HV1SAP Adapter

An adapter to reduce from 4" (102 mm) diameter to 1.83" FPT

Model FJ304 Combination Filter Holder

Holds 3.4"D × 1.2"H charcoal filter and 4" (102 mm) diameter filter paper

Model FJ2100 Filter Holder

8"×10" (20,3 cm × 25,4 cm) particulate filter holder may be utilized directly on the unit

Maximum Flow Rates:

HV-1SA or HV1SAP Reducer and Small Diameter Filters

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