



F&J SPECIALTY PRODUCTS, INC.

PO Box 2888

Ocala, Florida 34478-2888

Tel: (352) 680-1177 • (352) 680-1178

Fax: (352) 680-1454

Email: fandj@fjspecialty.com **Internet:** www.fjspecialty.com

The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER F&J MODEL DFHV-1E

NOTABLE FEATURES:

- Display in English or metric units set at factory
- Choices of flow/volume units:
 - SLPM SL
 - SCMH SCM
 - SCFM SCF
- State of the Art microprocessor electronics
- Automatic Flow Control
- Auto Shut-off on time or volume
- Flowrate and volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Elapsed time meter
- Auto zero calibration feature of flow sensor
- Bright LED display
- Flow rate accuracy within $\pm 4.0\%$ F.S.
- RS-232 Communication Port w/Operator selectable download frequency for real-time data
- 220 – 240 VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model DFHV-1E digital high volume air samplers provide simplicity of operation and improved accuracy for collection of airborne contaminants (particulates and iodine gases). This model features a motor cooling fan within the motor housing, digital flow measurement, elapsed time and accumulated volume measurement capability. It has a bright LED display and a four button keypad.

Various flow and volume engineering units are available for selection.

The pump is mounted on a rigid base with non-skid rubber feet.

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DFHV-1E High Volume Air Sampler (220-240 VAC)

SPECIFICATIONS:

PUMP TYPE: Two-stage, dual ball-bearing, bypass type with an independent cooling system for the motor that provides thermal overload protection.

HUMIDITY OPERATING RANGE:
0-95% RH (non-condensing)

FLOW SENSOR TYPE: Volumetric Flow

MAXIMUM FLOW CAPACITY:
200 SLPM with FP47M Glass Fiber Filter Paper

TEMPERATURE OPERATING RANGE:
-8° to 50° C (18 to 122°F)

ULTIMATE VACUUM: 80" H₂O at standard temperature, pressure and zero flow restriction

POWER REQUIREMENTS: 220 – 240VAC;
50/60Hz at 4.1 amperes; single phase

CIRCUIT BREAKER PROTECTION:
10 amperes, slow blow fuse

ELECTRICAL CORD: All temp, 3-wire, 16 gauge

FLOW CONTROL: Electronic motor speed control

HANDLE: Durable plastic

DIMENSIONS: 11 1/16" L × 9 3/8" W × 10 3/4" H
(28,1 × 23,8 × 25,4 cm)

NOISE LEVEL: Average dB 83.8 @ 1 meter

WEIGHT: Approx 13.4 lbs. (6,1 kg)

INSTALLATION CATEGORY: Pollution Degree 2

DIGITAL FLOWMETER DISPLAYS:

Flowrate: Corrected to Ref. T and P
Elapsed Time: hhh:mm
Volume: Corrected to Ref. T and P

STANDARD COMBINATION FILTER HOLDERS AVAILABLE:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-19P	F&J Model C	2" or 50 mm
FJ-27P	F&J Model B	2" or 50 mm
FJ-34P	F&J Model C	47 mm
FJ-39P	F&J Model B	47 mm
FJ-52P	F&J Model M	2" or 50 mm
FJ-54P	F&J Model M	47 mm

FLOW CALIBRATION:

Factory calibration recommended once per year

OPTIONAL FILTER HOLDERS: (Aluminum, Open-Face, 1.83" MPT)

MODEL #	DESCRIPTION
FJ-23	2" Particulate only
FJ-102	4" Particulate only

MAXIMUM FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

CHARCOAL CARTRIDGE 2 1/4"D × 1"H	PARTICULATE FILTER 47 mm	FLOW RATE	
		CFM	LPM
TE1C	-----	14,5	410
TE3C	-----	9,6	272
TE2C	-----	5,0	142
-----	FP47	5,4	153
-----	FP47M	10,0	283
TE3C	FP47	4,4	125
TE2C	FP47	3,5	99

AVAILABLE FLOW/VOLUME UNIT COMBINATIONS:

FLOW	VOLUME
SCFM	SCF
SLPM	SL
sm ³ /h	sm ³

NOTE:

Units are factory settable. Specify desired units at the time the order is placed.

OPTIONS:

232FCDS	Data Storage Device
372239	Secure Digital Card
SDDR-199-A20	FlashCard Reader

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