

F&J SPECIALTY PRODUCTS, INC.

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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
- \geq 220 230 VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model DFHV-1E digital high volume air samplers provide simplicity of operation and improved accuracy. 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.

Rev: 28 August 2017

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.

MAXIMUM MOTOR CAPACITY:

94 CFM at 29.92" Hg and 68°F (Free Air Flow); Flow rate achievable will depend on the filter media utilized

HUMIDITY OPERATNG RANGE:

0-95% RH (non-condensing)

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

 $(28.1 \times 23.8 \times 25.4 \text{ cm})$

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:

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FILTER	CHARCOAL	PARTICULATE
HOLDER	CARTRIDGE	PAPER
MODEL	DIMENSIONS	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	PARTICULATE	FLO	\mathbf{W}
CARTRIDGE	FILTER	RA	TE
$2 \frac{1}{4}$ "D × 1"H	47 mm	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:

232FCDSD	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

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