



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-1EV.2

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



**DFHV-1V.2 Illustrated with
Optional filter holder**

GENERAL DESCRIPTION:

Model DFHV-1EV.2 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 self-cooled motor and a cooling fan in the electronics compartment, 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.

The DFHV-1EV.2 air sampling system is designed for periodic indoor use. Please consult the product specifications for the design temperature range and the installation category.

Rev: 28 February 2022

DFHV-1EV.2 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: Precision Machined Venturi

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 4.2 amperes; single phase

CIRCUIT PROTECTION:

6.3 amperes, slow blow fuse

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

FLOW CONTROL: Electronic motor speed control

HANDLE: Durable metal/plastic

DIMENSIONS: 12.25"L × 8.25"W × 11.00 Height
(31.1 × 20.9 × 27.9 cm)

NOISE LEVEL: Average dB 83.8 @ 1 meter

WEIGHT: Approx. 12.90 lbs. (5,8 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 ¼"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