



F&J SPECIALTY PRODUCTS, INC.

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The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER F&J MODEL DFHV-1

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
- 110 – 120 VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model DFHV-1 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 July 2016

DFHV-1 High Volume Air Samplers (110-120 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 OPERATING RANGE: 0 – 95% RH (non-condensing)

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

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

POWER REQUIREMENTS: 110 – 120VAC;
50/60Hz at 6 amperes; single phase

CIRCUIT BREAKER PROTECTION: 10 amperes, slow blow fuse

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

HANDLE: Durable plastic

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

AVERAGE dB: 83.8

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

INSTALLATION CATEGORY: Pollution Degree 2

DIGITAL FLOWMETER DISPLAYS:

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

FLOW CALIBRATION:

Factory calibration recommended once per year

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

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	PARTICULATE FILTER	FLOW RATE	
2 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
SCMH	SCM

NOTE:

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

OPTIONS:

OPTIONS:	P/N:
Data Storage Device	232FCDS
2 GB Secure Digital Card	372239
FlashCard Reader	SDDR-199-A20

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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