



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

DIGITAL FLOW METER HIGH VOLUME AIR SAMPLER F&J MODELS DFHV-200 and DFHV-200E



DFHV-200
100 – 120 VAC



DFHV-200E
220 – 240 VAC

NOTABLE FEATURES:

- State-of-the-art Microprocessor Controlled Electronics
- Accurate flow sensor
- Flow rate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Very accurate elapsed time meter
- Very durable polycarbonate plastic housing
- Lightweight 14.4 lbs. (6.5 kg)
- Variable speed control up to full flow
- Thermally Protected Motor
- Powerful 3 H.P. dual ball bearing tangential discharge brushed vacuum blower
- Bright LED display
- Standard 4-inch (102 mm) diameter filter holder; also accommodates optional 110 mm, 125 mm, 140 mm and 150 mm filter holders

GENERAL DESCRIPTION:

The DFHV-200 (120VAC) and the DFHV-200E (230VAC) Digital Flow Meter 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 contained in a very durable lightweight plastic polycarbonate housing with a sturdy stable base, having non-skid rubber feet. The flow rate is adjustable by use of a motor speed controller.

The DFHV-200 series 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

DFHV-200 (100-120 VAC) and DFHV-200E (220 - 240 VAC) High Volume Air Sampler

SPECIFICATIONS:

Pump Type:

Three stage, through flow, dual ball bearing 3.0 H.P., tangential discharge brushed vacuum blower motor.

Power Requirements:

DFHV-200 100-120VAC; 50/60Hz; single phase
DFHV-200E 220-240VAC; 50/60Hz; single phase

Power Cord:

5'8"; 14 gauge, 3 conductor

Circuit Breaker:

20 amp (able to reset)

Flow Control

Variable Speed up to full flow

Noise Level @ 1 meter: ~96dB (max rpm) *

Dimensions: 19" L x 16" H x 10.25" D
(48.2cm L x 40.6cm H x 26.0cm D)

Weight: 14.4 lbs (6.5 kg)

Handle: Durable plastic/built into housing

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

FJ304 Combination Filter Holder:

Charcoal Filter	Flow Rate
Filter Paper	(CFM) (LPM)
TE3.1	----- 1395

Various Filter Paper Grades 4" Diameter

Grade	(CFM)	(LPM)
FP40	32.8	928.0
FP40M	65.2	1845.0

Available Flow/Volume Unit Combinations:

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

* Hearing protection is recommended when operating this air sampler above 85dB noise level

OPTIONAL FILTER HOLDERS:

Model FJ-110MM-HV – 110 mm Diameter, Aluminum
Model FJ-125MM-HV – 125 mm Diameter, Aluminum
Model FJ-130MM-HV – 130 mm Diameter, Aluminum
Model FJ-140MM-HV – 140 mm Diameter, Aluminum
Model FJ-150MM-HV – 150 mm Diameter, Aluminum

Model FJ3104P Combination Filter Holder

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