



**F&J SPECIALTY PRODUCTS, INC.**  
*The Nucleus of Quality Air Monitoring Programs*

**DIGITAL FLOW METER HIGH VOLUME  
F&J MODEL DFHV-1DS**

**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
- Brushless motor



**New!**  
**1100 watt brushless motor**

**GENERAL DESCRIPTION:**

Model DFHV-1DS digital high volume air samplers provide a durable brushless motor with the 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. Model DFHV-1DS has automatic flow control. The brushless motor eliminates the need to change brushes every 500 hours.

Various factory settable flow and volume engineering units are available for selection.

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

The air sampler is supplied with a 4 inch (102 mm) diameter filter holder.

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

**Rev: 24 Nov. 2015**

## DFHV-1DS SPECIFICATIONS:

**PUMP TYPE:** Two-stage, dual ball-bearing, bypass type brushless motor with an independent cooling system. The motor has thermal overload protection.

**POWER:** 1100 Watts

**MAXIMUM MOTOR CAPACITY:** 100+ CFM at 29.92" Hg and 68°F (Free Air Flow). Actual flow rate achievable will depend on the filter media utilized

**HUMIDITY OPERATING RANGE:**

0 – 95% RH (non-condensing)

**TEMPERATURE OPERATING RANGE:**

18°F to 122°F (-8°C to 50°C)

**ULTIMATE VACUUM:** 86" H<sub>2</sub>O at 29.92" Hg and 68°F and zero flow restriction

**POWER REQUIREMENTS:**

110 – 120VAC; 50/60Hz at 14 amperes; single phase

**CIRCUIT BREAKER PROTECTION:**

15 amperes

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

**FLOW CONTROL:**

PWM Electronic motor speed control

**HANDLE:** Durable metal/plastic

**DIMENSIONS:** 12.7" L × 10.7" W × 7.5" H  
(32.3 × 27.2 × 19 cm)

**AVERAGE dB:** 86.5

**WEIGHT:** Approx 14 lbs. (6.4 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

**FLOW CALIBRATION:**

Factory calibration or calibration check recommended once per year.

## AVAILABLE FLOW/VOLUME UNIT COMBINATIONS:

<u>FLOW</u>	<u>VOLUME</u>
SCFM	SCF
SLPM	SL
sm <sup>3</sup> /h	sm <sup>3</sup>

**NOTE:** Units are factory set. Specify desired units at the time the order is placed.

## APPROXIMATE FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

PARTICULATE FILTER	FLOW RATE	
	(CFM)	(LPM)
(102 mm)		
213340	58	1640
521140	35	990
FP4.0M	57	1613
FP40	28	792

**OPTIONS:**

**P/N:**

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

**Adaptor for 1.83" MPT Filter Holder:**

P/N: HV1SAP

**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

404 Cypress Road, Ocala, FL 34472  
352.680.1177 ph 352.680.1454 fax  
[www.fjspecialty.com](http://www.fjspecialty.com)