

## F&J SPECIALTY PRODUCTS, INC.

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*The Nucleus of Quality Air Monitoring Programs*

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# DIGITAL FLOW METER HIGH VOLUME AIR SAMPLER F&J MODEL DFHV-1S-BL-T

### 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
- 100 – 120 VAC, 50/60Hz; single phase
- Brushless Motor (450 watts)



### GENERAL DESCRIPTION:

Model DFHV-1S-BL-T digital high volume air samplers provide simplicity of operation and improved accuracy. This model features a 450 watt brushless vacuum blower, digital flow measurement, elapsed time and accumulated volume measurement capability. It has a bright LED display and a user friendly four button keypad.

Various flow and volume engineering units are available for selection at the time of order placement.

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

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

The DFHV-1S-BL-T air sampling system is designed for periodic indoor use with a  $\geq 4''$  (102mm) diameter filter media. Please consult the product specifications for the design temperature range and the installation category.

**Rev:** 20 June 2019

# DFHV-1S-BL-T High Volume Air Sampler (100-120 VAC)

## SPECIFICATIONS:

**PUMP TYPE:** The pump is a 450W brushless blower with 3 phase commutation for more precise speed control

**HUMIDITY OPERATING RANGE:**

0-95% RH (non-condensing)

**TEMPERATURE OPERATING RANGE:**

18 to 122°F (-8 to 50°C)

**ULTIMATE VACUUM:** 58.9" H<sub>2</sub>O (4.34 Hg) at standard temperature, pressure and zero flow restriction

**POWER REQUIREMENTS:** 100 – 120VAC; 50/60Hz at 3 amperes; single phase

**CIRCUIT BREAKER PROTECTION:** 10 amperes

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

**FLOW CONTROL:** Electronic motor speed control

**HANDLE:** Durable metal/plastic

**DIMENSIONS:** (10"L × 8 ¼"W × 9¾"H)  
(25.4cm L x 21.0cm W x 24.8cm H)

**AVERAGE dB:** 78.6 at 31.4 CFM

**WEIGHT:** Approx 12 lbs (5.43 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.

**FILTER HOLDER OPTIONS:**

The standard 102 mm filter holder design can be custom modified to provide 110 mm, 120 mm, 130 mm and 150 mm filter media.

**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 MAXIMUM FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:**

<u>PARTICULATE FILTER</u> <b>(102 mm)</b>	<u>FLOW RATE</u>	
	<b>(CFM)</b>	<b>(LPM)</b>
213340	32.95	933.0
521140	18.25	517.6
FP4.0M	30.51	863.9
FP40	15.95	451.7
FP102M2	33.68	953.7

**OPTIONS:**

Data Storage Device  
Secure Digital Card  
FlashCard Reader

**P/N:**

232FCDS  
372239  
SDDR-199-A20

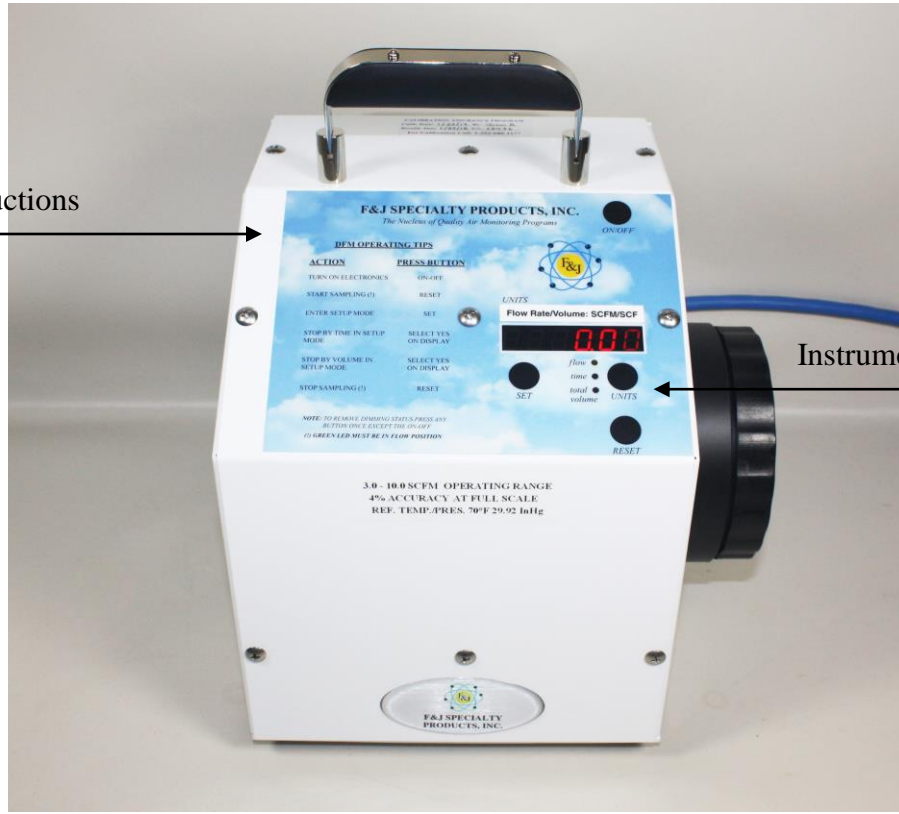
**Adaptor for 1.83" MNPT Filter Holder: HV1SAP**

**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

# DFHV-1S-BL-T High Volume Air Sampler (100-120 VAC)

General Instructions



Instrument Key Pad and Display



# DFHV-1S-BL-T High Volume Air Sampler (100-120 VAC)



USB Connector for RS232 Output

Filter Holder



Name Plate Label

Circuit Breaker

Working Air Exhaust