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The Nucleus of Quality Air Monitoring Programs

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

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



GENERAL DESCRIPTION:

Model DFHV-1S 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. This model features operator selectable automatic flow control.

Various flow and volume engineering units are available for selection.

The air sampler 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. Options include an adaptor to convert from a 4 inch diameter opening to a 1.83 inch opening for standard combination filter holders (P/N: HV1SAP).

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

Rev: 20 June 2019

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

SPECIFICATIONS:

PUMP TYPE: Two-stage, dual ball-bearing, bypass type with an independent cooling system for the motor that provides thermal overload protection.

HUMIDITY OPERATING RANGE: 0 – 95% RH (non-condensing)

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

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

POWER REQUIREMENTS: 100 – 120VAC; 50/60Hz at 6 amperes; single phase

CIRCUIT BREAKER PROTECTION: 8 amperes

ELECTRICAL CORD: All temp, 3 wire 16 gauge

FLOW CONTROL: Electronic motor speed control

HANDLE: Durable metal/plastic

DIMENSIONS: 10 ¾" L × 7 ¼" W × 9¾" H
(27.3 × 18.4 × 24.7 cm)

NOISE LEVEL: Average dB 83.3 @ 1 meter

WEIGHT: Approx 12 lbs. (5.5 kg)

INSTALLATION CATEGORY: Pollution Degree 2

ENCLOSURE RATING: IPX2

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 ³ /h	sm ³

NOTE:

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

APPROXIMATE FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

PARTICULATE FILTER (102 mm)	FLOW RATE	
	(CFM)	(LPM)
213340	45	1274
521140	22	623
FP4.0M	45	1274
FP40	23	650

OPTIONS:

Data Storage Device
Secure Digital Card
FlashCard Reader

P/N:

232FCDS
372239
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