



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

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

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
- 220 – 240 VAC, 50/60Hz; single phase
- Brushless motor (1100 watts)



New!
1100 watt brushless motor

GENERAL DESCRIPTION:

Model DFHV-1DTSE digital high volume air samplers provide a durable brushless motor with the simplicity of operation and improved accuracy. This model features a 22 CFM 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 and automatic flow control. The brushless motor eliminates the need to change brushes every 500 hours as required by brush type motors.

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. Other custom filter holder dimensions can be provided upon request.

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

Rev.: 21 July 2020

DFHV-1DTSE High Volume Air Sampler Specifications

DFHV-1DTSE SPECIFICATIONS:

PUMP TYPE: Three-stage, dual ball-bearing tangential discharge, type brushless motor with an independent cooling system. The motor has thermal overload protection.

POWER: 1100 Watts

HUMIDITY OPERATING RANGE:

0 – 95% RH (non-condensing)

TEMPERATURE OPERATING RANGE:

18°F to 122°F (-8°C to 50°C)

ULTIMATE VACUUM: 121.9" H₂O at 28.40" Hg and 76°F and zero flow restriction

POWER REQUIREMENTS:

220 – 240VAC; 50/60Hz at 6.0 amperes; single phase

CIRCUIT BREAKER PROTECTION:

10 amperes

ELECTRICAL CORD: All temp, 3 wire 16 gauge

FLOW CONTROL:

PWM Electronic motor speed control

HANDLE: Durable metal/plastic

DIMENSIONS: 13.8 "L × 9.2"W × 11.0 "H
(35.1 × 23.3 × 27.9 cm)

WEIGHT: Approx. 16.75 lbs. (7.59 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 ³ /h	sm ³

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

APPROXIMATE MAXIMUM FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

PARTICULATE FILTER	FLOW RATE	
	(CFM)	(LPM)
(102 mm)		
AE40	22	627
521140	25	714
FP4.0M	45	1259
FP40	22	626
FP102M2	52	1480

OPTIONS:

P/N:

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

Adaptor for 1.83" MPT Filter Holder:

P/N: HV1SAP

Adaptor for Charcoal Cartridge:

P/N: FJ3140P

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