



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

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 (1100 watts)



New!
1100 watt brushless motor

GENERAL DESCRIPTION:

Model DFHV-1DT digital high volume air samplers provide simplicity of operation and improved accuracy. This model features a 1100 watt brushless vacuum blower, 22 CFM motor cooling fan, digital flow measurement, elapsed time and accumulated volume measurement capability. It has a bright LED display and a 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 DFHV-1DT air sampling system is designed for periodic indoor use with a 47mm diameter filter media or greater diameter. Please consult the product specifications for the design temperature range and the installation category.

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DFHV-1DT High Volume Air Sampler Specifications

SPECIFICATIONS:

PUMP TYPE: The pump is a 1100 W 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: 8" H₂O at standard temperature, pressure and zero flow restriction

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

CIRCUIT BREAKER PROTECTION: 20 amperes

ELECTRICAL CORD: All temp, 3 wire 16 gauge

FLOW CONTROL: Electronic motor speed control

HANDLE: Durable metal/plastic

DIMENSIONS: (11.5"L × 8 ¼"W × 9¾"H)

AVERAGE dB: 78.4

WEIGHT: Approx 17.5 lbs. (7.9 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.

APPROXIMATE MAXIMUM FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

Filter Media	Maximum Flow Rate (ft ³ /min)		Maximum Flow Rate (L/min)	
	60Hz	50Hz	60Hz	50Hz
FP-47	4.24	3.53	120.0	99.96
FP-47M	9.53	7.94	270.0	224.91
521147	4.41	3.67	125.0	104.13
FP-47 + TE3C	3.46	2.88	98.0	81.63
FP-47M + TE3C	5.30	4.41	150.0	124.95
521147 + TE3C	3.53	2.94	100.0	83.30

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.

OPTIONS:

Data Storage Device
Secure Digital Card
FlashCard Reader

P/N:

232FCDS
372239
SDDR-199-A20

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