



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER F&J MODEL DFHV-1V.2

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-1V.2 digital high volume air samplers provide simplicity of operation and improved accuracy for collection of airborne contaminants (particulates and iodine gases). This model features a self-cooled motor and a cooling fan in the electronics compartment, 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.

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

The DFHV-1V.2 air sampling system is designed for periodic indoor use. Please consult the product specifications for the design temperature range and the installation category.

Rev.: 07 March 2022

DFHV-1V.2 High Volume Air Sampler Specifications (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.

MAXIMUM MOTOR CAPACITY:
94 CFM at 29.92" Hg and 68°F (Free Air Flow);
Flow rate achievable will depend on the filter media utilized

FLOW SENSOR TYPE: Precision Machined Venturi

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

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

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

POWER REQUIREMENTS: 100 – 120VAC;
50/60Hz at 9.7 amperes; single phase

CIRCUIT PROTECTION: 10
amperes, slow blow fuse

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

HANDLE: Durable metal/plastic

DIMENSIONS: 12.25"L × 8.25"W × 11.00 Height
(31.1 × 20.9 × 27.9 cm)

NOISE LEVEL: Average dB 83.8 @ 1 meter

WEIGHT: Approx 12.90 lbs. (5,8 kg)

INSTALLATION CATEGORY: Pollution Degree 2

DIGITAL FLOWMETER DISPLAYS:

Flowrate: Corrected to STP

Elapsed Time: hhh:mm

Volume: Corrected to STP

FLOW CALIBRATION:

Factory calibration recommended once per year

STANDARD COMBINATION FILTER HOLDERS

AVAILABLE:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-19P	F&J Model C	2" or 50 mm
FJ-27P	F&J Model B	2" or 50 mm
FJ-34P	F&J Model C	47 mm
FJ-39P	F&J Model B	47 mm
FJ-52P	F&J Model M	2" or 50 mm
FJ-54P	F&J Model M	47 mm

**OPTIONAL FILTER HOLDERS:
(Aluminum, Open-Face, 1.83" MPT)**

MODEL #	DESCRIPTION
FJ-23	2" Particulate only
FJ-102	4" Particulate only

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

CHARCOAL CARTRIDGE 2 ¼"D × 1"H	PARTICULATE FILTER 47 mm	FLOW RATE	
		CFM	LPM
TE1C	-----	14.5	410
TE3C	-----	9.6	272
TE2C	-----	5.0	142
-----	FP47	5.4	153
-----	FP47M	10.0	283
TE3C	FP47	4.4	125
TE2C	FP47	3.5	99

**AVAILABLE FLOW/VOLUME UNIT
COMBINATIONS:**

FLOW	VOLUME
SCFM	SCF
SLPM	SL
SCMH	SCM

NOTE:

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

OPTIONS:	P/N:
Data Storage Device	232FCDS0
Secure Digital Card	372239
FlashCard Reader	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