

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER F&J MODEL HV-1EV.2

NOTABLE FEATURES:

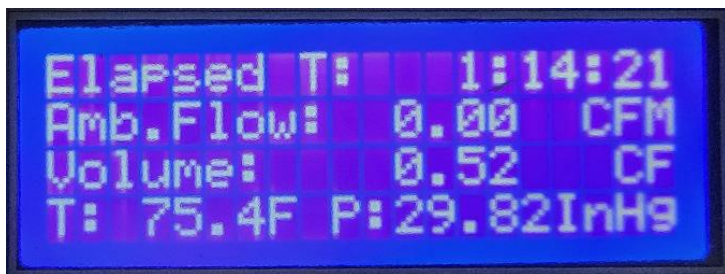
- LCD Digital Display
- Stable Base Plate with Rubber Support Feet
- Reporting of Flow Rates and Volumes to Local Air Temperature and Pressure
- Optional Reporting of Flows and Volumes to a Reference Temperature and Pressure
- Flow Adjustment via Motor Speed Control
- Dual Ball bearing Motor with Independent Cooling
- 200—240VAC, 50/60Hz; single phase
- Independently cooled electronic compartment
- Accuracy: $\pm 5\%$ Full Scale (F.S.)



Shown with optional F&J filter holder

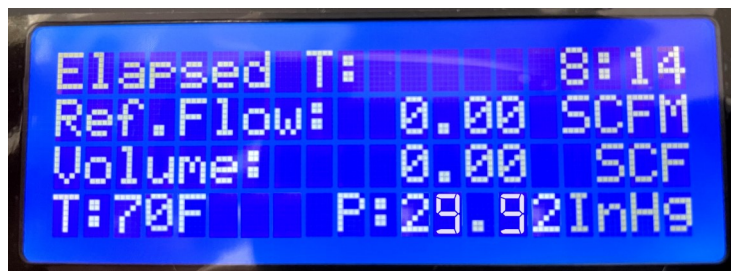
GENERAL DESCRIPTION:

Model HV-1EV.2 is a lightweight portable high volume air sampler. This model features manual flow regulation, a cooling fan in the electronics section of the enclosure and flow rate and volume reported at the ambient temperature and pressure conditions of the sample location. The vacuum blower is mounted in a rigid enclosure with non-skid rubber feet. An ergonomic LCD displays illustrates the pertinent air sampling data of the air sampling measurement such as elapsed time, ambient flow, totalized volume, and ambient temperature and pressure.



Standard Product

(Reporting of flow and volume at ambient conditions of temperature and pressure)



STP OPTION

(Reporting of flow and volume at a Reference temperature and pressure in addition to the reporting at ambient conditions)

REV: 28 February 2022

F&J HV-1EV.2 High Volume Air Sampler Specifications

SPECIFICATIONS:

PUMP TYPE:

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

TEMPERATURE OPERATING RANGE:

18 to 122°F (-7 to 50°C)

ULTIMATE VACUUM:

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

POWER REQUIREMENTS:

220 – 240VAC; 50/60Hz at 6 amperes; single phase

FUSE PROTECTION: 6.3 amperes, slow blow fuse

HANDLE: Metal/Plastic

WEIGHT: Approximately 12.90 lbs. (5.8 kg)

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

* Indicated with handle up position. Handle down height is 9.35"

NOISE LEVEL: Average dB 73.5 @ 1 meter

KEYPAD: 4 button

DISPLAY: LCD (4 lines x 20 characters)

DISPLAY DIMENSIONS: 3"L x 1"W

FLOW MEASUREMENT: Precision machined venturi

ACCURACY: ± 5% Full Scale (F.S.)

OPTIONS

- 1) Filter holders
- 2) Flow rate / Volume reported to Reference T and P (Factory settable)

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 |
| FJ-33 | 47 mm Particulate |
| FJ-102 | 4" Particulate |

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 |