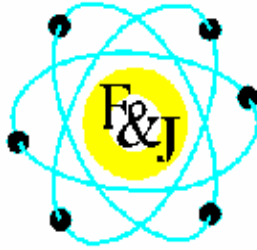


**F&J SPECIALTY PRODUCTS, INC.**  
*The Nucleus of Quality Air Monitoring Programs*



**HIGH VOLUME AIR SAMPLER**  
**F&J MODEL HV-1E**

**NOTABLE FEATURES:**

- Single Rotometer
- Multiple Reinforcement for the Electrical Cord
- Stable Base Plate
- Removable Controller Module to Facilitate Maintenance
- Multiple Rotometer Scales are Available
- Flow Adjustment via Motor Speed Control
- Dual Ball bearing Motor with Independent Cooling
- 220 – 240VAC, 50/60Hz; single phase



**HV-1E**

**GENERAL DESCRIPTION:**

Models HV-1E single rotometer is a high volume air sampler. This model features electronic flow regulation, a motor cooling fan within the motor housing, flow measurement and flow calibration capability. The pump is mounted on a rigid base with non-skid rubber feet. A removable controller module unit includes a protective guard for the single rotometer and the controls. This removable module facilitates maintenance of the pump components.

**REV: 15 November 2005**

# HV-1E High Volume Air Sampler (220-240 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 CAPACITY:

94 CFM at 29.92" Hg and 68°F (Free Air Flow)

### TEMPERATURE OPERATING RANGE:

18 to 122°F (-7 to 50°C)

### ULTIMATE VACUUM:

80" H<sub>2</sub>O at standard temperature, pressure and zero flow restriction

### POWER REQUIREMENTS:

220 – 240VAC; 50/60Hz at 3 amperes; single phase

**FUSE PROTECTION:** 6 amperes, slow blow fuse

**HANDLE:** Durable plastic

### BASE PLATE:

**Weight:** 0,5 kg (1 lb.)

**Dimensions:** 17,8 × 17,8 × 0,3 cm  
(7"L × 7"W × 1/8" Thick)

**DIMENSIONS:** 23,5 × 21,0 × 25,4 cm  
(9 1/4"L × 8 1/4"W × 10"H)

**WEIGHT:** Approximately 5 kg (11 lbs.)

### FLOW METER:

Various flow ranges are available in CFM or LPM.

### FLOW CALIBRATION:

An adjustable needle valve at the top of the flowmeter is secured by a locking nut.

### 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
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FJ-23	2" Particulate
FJ-33	47 mm Particulate
FJ-102	4" Particulate

### MAXIMUM FLOW RATES THROUGH VARIOUS FILTER COMBINATIONS:

CHARCOAL CARTRIDGE	PARTICULATE FILTER	FLOW RATE	CFM	LPM
2 1/4"D × 1"H	47 mm			
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 ROTOMETER SCALES:

MODEL #	RANGE	UNITS
R075	0,7 – 4,8	CFM
R13	1,0 – 3,0	CFM
R1070	1,0 – 7,0	CFM
R195	2 – 9,5	CFM
R312	3 – 12	CFM
R420	4 – 20	CFM
R530	5 – 30	CFM
R2085	20 – 85	LPM
R20140	20 – 140	LPM
R30200	30 – 200	LPM
R30270	30 – 270	LPM
R60360	60 – 360	LPM
R14085	150 - 850	LPM
R15570	140 – 570	LPM

### NOTE:

The selection of the rotometer scale(s) depends upon the filter(s) being utilized.