



## F&J SPECIALTY PRODUCTS, INC.

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*The Nucleus of Quality Air Monitoring Programs*

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# HIGH VOLUME AIR SAMPLER F&J MODEL HV-1T

### 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
- Automatic Shut-Off Timer
- 100 – 120VAC, 50/60Hz; single phase



**HV-1T**

### GENERAL DESCRIPTION:

Models HV-1T single rotometer is a high volume air sampler that 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 nonskid 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. A shutoff timer is provided to automatically shutoff the motor after a preset sampling time is achieved.

REV: 22 Feb. 2016

# HV-1T High Volume Air Sampler (100 – 120VAC)

## Specifications:

### Pump Type:

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

### Maximum Air 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:** 100-120VAC; 50/60Hz at 6 amperes; single phase

**Fuse Protection:** 8 Amperes, slow-blow fuse

**Handle:** Durable Plastic

### Base Plate:

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

**Dimensions:** 7"L × 7"W × 1/8" Thick

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

**Average dB:** 73.5

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

**Timer:** Auto shut-off timer  
(various ranges available)

### Flowmeter:

Various flow ranges are available in CFM or LPM.

### Flow Calibration:

An adjustable needle valve at the top of the flow meter is secured by a locking nut

## STANDARD COMBINATION FILTER HOLDERS:

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

## TYPICAL MAXIMUM FLOWRATES THROUGH VARIOUS FILTER COMBINATIONS:

Charcoal Cartridge <u>2 1/4"D × 1"H</u>	Particulate Filter <u>47 mm</u>	Flowrate	
		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 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 – 95	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
R15570	140 – 570	LPM
R14085	150 – 850	LPM

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

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