

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



HIGH VOLUME AIR SAMPLER
F&J MODEL HV-1TE

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
- 220 – 240VAC, 50/60Hz; single phase



HV-1TE

GENERAL DESCRIPTION:

Models HV-1TE 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.

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HV-1TE High Volume Air Sampler (220 – 240VAC)

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" H₂O at standard temperature, pressure and zero flow restriction

Power: 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: 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)

Weight: Approximately 5 kg (11 lbs.)

Timer: Auto shut-off timer – 60 min.

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 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

TYPICAL MAXIMUM FLOWRATES THROUGH VARIOUS FILTER COMBINATIONS:

Charcoal Cartridge	Particulate Filter	Flowrate CFM	Flowrate 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
R15570	140 – 570	LPM
R14085	150 – 850	LPM

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