



F&J SPECIALTY PRODUCTS, INC.

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The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER F&J MODEL HV-1

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
- 100 – 120VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model HV-1 (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.

HV-1 High Volume Air Sampler (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 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 REQUIREMENTS:

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
(17,8 × 17,8 × 0,3 cm)

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)

FLOW METER:

Various flow ranges are available in CFM and 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

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 ROTOMETERS:

<u>MODEL #</u>	<u>RANGE</u>	<u>UNITS</u>
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
R2085	20 – 85	LPM
R20140	20 – 140	LPM
R30200	30 – 200	LPM
R30270	30 – 270	LPM
R60360	60 – 360	LPM
R15570	140 – 570	LPM

NOTE:

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

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