

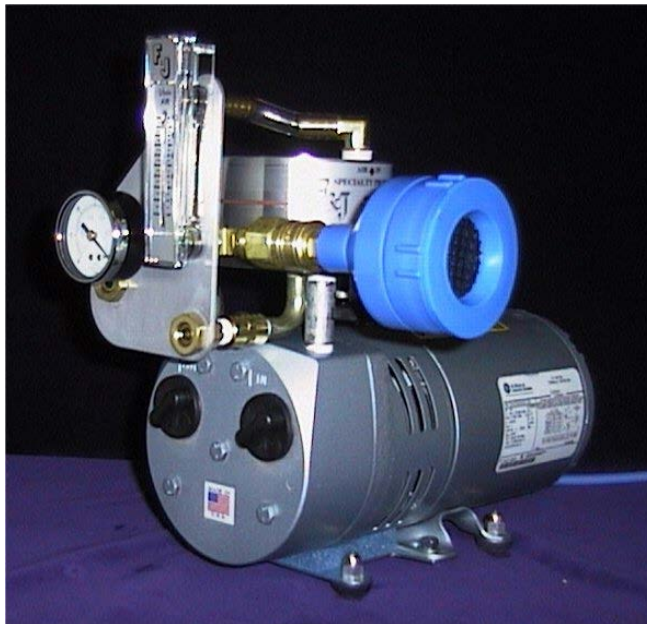
**F&J SPECIALTY PRODUCTS, INC.**  
*The Nucleus of Quality Air Monitoring Programs*

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## **LOW VOLUME AIR SAMPLER F&J MODEL LV-1**

### **NOTABLE FEATURES:**

- Constant air flow regulator adjustable by user
- Chassis mounted ON-OFF switch with fuse protection
- Durable oil-less carbon vane pump designed for continuous use
- Internal intake and exhaust mufflers
- Rotometer and Vacuum gauge
- 110 – 120VAC, 50/60Hz; single phase



**Shown with Quick-disconnect and Filter Holder**

### **GENERAL DESCRIPTION:**

Model LV-1 is a low volume air sampler consisting of a ¼ HP oil-less, carbon vane vacuum pump with a flow meter, vacuum gauge and a constant airflow regulator for use where a nearly constant airflow is desirable. The regulator holds a constant pressure drop across an in-line orifice by varying the flow through a bypass valve in to the pump. This system allows the pump to work at a minimum pressure drop at all times permitting it to run cooler; thus extending its service life. The oil-less pump requires no lubrication to maintain optimal efficiency during its service life. The pump is mounted on a base with four rubber feet. A handle is provided on the chassis to facilitate its transportation.

The LV-1 Air Sampling System is designed for continuous indoor use. Please consult the product specifications for the design temperature and the installation category.

The typical operating flow range is 1 to 3 CFM (10 – 100 LPM).

**REV: 08 Dec 2011**

# Low Volume LV-1 Air Sampler Specifications

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<b>PUMP TYPE:</b>	Oil-less, carbon vane ¼ HP, 1725 RPM @ 60 Hz
<b>MAXIMUM CAPACITY:</b>	4 CFM (113 LPM) @ 0" Hg Pressure drop
<b>ULTIMATE VACUUM:</b>	25" (635 mm) Hg @ sea level
<b>POWER REQUIREMENTS:</b>	110-120VAC, 50/60Hz @ 6 amperes; single phase
<b>FUSE PROTECTION:</b>	6 ¼ amperes, slow blow
<b>ELECTRICAL CORD:</b>	All temperature, 3 wire, 14 gauge
<b>THERMAL OVERLOAD PROTECTION:</b>	Furnished as an integral part of the motor
<b>CONSTANT AIRFLOW REGULATOR:</b>	Aluminum construction with silicone diaphragm, adjustable from 1 to 3 CFM (10-100 LPM)
<b>DIMENSIONS:</b>	18"L × 7"W × 13"H (45,7L × 17,8A × 33 cm Alt)
<b>WEIGHT:</b>	37 lbs. (16,8 kg)
<b>HANDLE:</b>	Black Painted Steel

## AVAILABLE ROTOMETER SCALES:

MODEL	RANGE
R10100	10-100 LPM
R13	1-3 CFM

## OPTIONS

<b>Elapsed Time Indicator</b>	- 9999.9 hours or minutes
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## COMBINATION FILTER HOLDER:

Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick-disconnect function.

## STANDARD COMBINATION FILTER HOLDERS AVAILABLE:

FILTER HOLDER	CHARCOAL CARTRIDGE	PARTICULATE PAPER
MODEL	DIMENSIONS	DIAMETER
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm