



## F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

# LOW VOLUME AIR SAMPLER MODEL LV-1D

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



**Shown with Optional Timer**

### GENERAL DESCRIPTION:

Model LV-1D is a low volume air sampler consisting of a 1/4 H.P. oil-less, carbon vane vacuum pump with a flow meter, a vacuum gauge and a constant air flow regulator for use where a nearly constant air flow is desirable. The regulator holds a constant pressure drop across an in-line orifice by varying the flow through a bypass valve into the pump. This system allows the pump to work at a minimum pressure drop at all times by 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-1D is distinguished from the LV-1 air sampler in that the flow meter and vacuum gauge are mounted on a quick disconnect plastic manifold on top of the motor that facilitates maintenance operations.

**REV: 09 April 2018**

## **Low Volume LV-1D Air Sampler Specifications**

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<b>PUMP TYPE:</b>	Oil-less, carbon vane ¼ HP, 50/60 Hz, 1 PH
<b>MAXIMUM CAPACITY:</b>	4 CFM (113 LPM) @ 0" Hg Pressure drop
<b>ULTIMATE VACUUM:</b>	0-30" (0-762 mm) Hg
<b>POWER REQUIREMENTS:</b>	100-120VAC, 50/60Hz @ 6 amperes; single phase
<b>FUSE PROTECTION:</b>	6 ¼ amperes, slow blow
<b>ELECTRICAL CORD:</b>	All temperature, 3 wire, 16 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>	16"L × 6"W × 15 ½" H (40,6L × 19,1A × 33,6 cm Alt)
<b>WEIGHT:</b>	30 lbs. (17,2 kg)
<b>HANDLE:</b>	Black Painted Steel
<b>INSTALLATION CATEGORY:</b>	Pollution Degree 2
<b>OPERATING TEMPERATURE:</b>	0° to 104° F (-18° to 40° C)
<b>ENCLOSURE RATING:</b>	IPX2
<b>AVAILABLE ROTOMETER SCALES:</b>	
<b>MODEL</b>	<b>RANGE</b>
R10100	10-100 LPM
R13	1-3 CFM
<b>OPTIONS</b>	
<b>Elapsed Time Indicator</b>	9999.9 hours or minutes

### **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:**

<b>FILTER HOLDER MODEL</b>	<b>CHARCOAL CARTRIDGE DIMENSIONS</b>	<b>PARTICULATE PAPER DIAMETER</b>
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