

F&J SPECIALTY PRODUCTS, INC.

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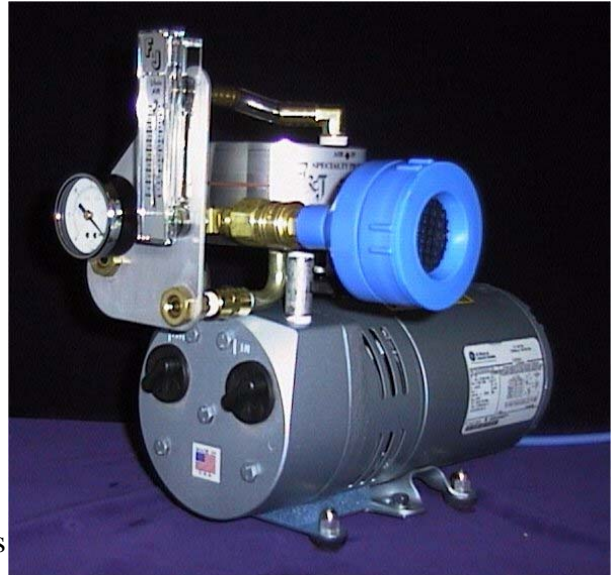
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The Nucleus of Quality Air Monitoring Programs

LOW VOLUME AIR SAMPLER F&J MODEL LV-1E

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
- 220 – 240VAC, 50/60Hz; single phase
- Certified to UL, CSA and CE electrical safety standards by ETL



Shown with Quick-disconnect and Filter Holder



GENERAL DESCRIPTION:

Model LV-1E is a low volume air sampler consisting of a ¼ HP oil-less, carbon vane vacuum pump with a flowmeter, 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 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-1E Air Sampling System is designed for continuous indoor use. Please consult the product specifications for the design temperature range and the installation category.

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

REV: 08 Dec 2011

LV-1E Low Volume Air Sampler (220-240VAC)

SPECIFICATIONS:

PUMP TYPE:

Oil-less, carbon vane 1/4 HP, 1425 RPM @ 50Hz

MAXIMUM CAPACITY:

4 CFM (113 LPM) at 0" Hg Pressure drop

ULTIMATE VACUUM:

25" (635 mm) Hg at sea level

VACUUM GAUGE:

0" – 30" (0,7 to 762 mm) Hg

POWER REQUIREMENTS:

220-240VAC, 50/60 Hz at 3 amperes; single phase

ELECTRICAL CORD:

All temperature, 3 wire, 16 gauge

FUSE PROTECTION:

6 ¼ amperes

THERMAL OVERLOAD PROTECTION:

Furnished as an integral part of the motor

CONSTANT AIRFLOW REGULATOR:

Aluminum construction with silicone diaphragm, adjustable from 1 to 3 CFM (10-100 LPM)

HANDLE:

Black Painted Steel

DIMENSIONS:

45,7L × 17,8A × 33,0 cm Alt
(18"L × 7"W × 13"H)

WEIGHT:

16,8 kg (37 lbs.)

INSTALLATION CATEGORY:

Pollution Degree 2

AVAILABLE ROTOMETER SCALES:

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

OPTIONS

- Elapsed Time Indicator – 9999,9 hours or minutes

COMBINATION FILTER HOLDER:

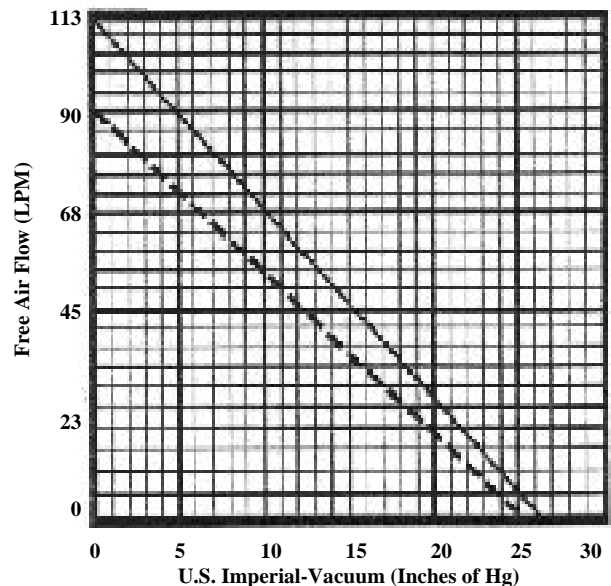
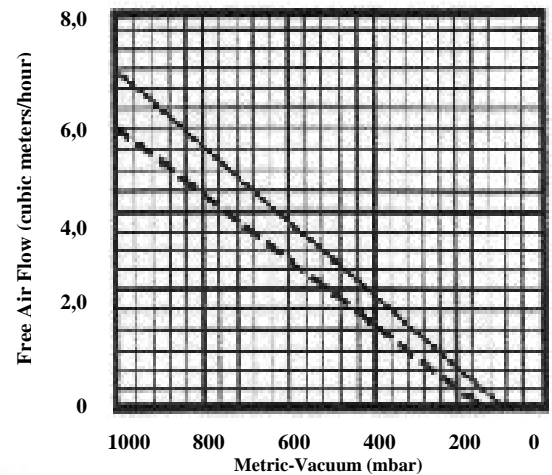
Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick-disconnect function.

STANDARD COMBINATION FILTER HOLDERS:

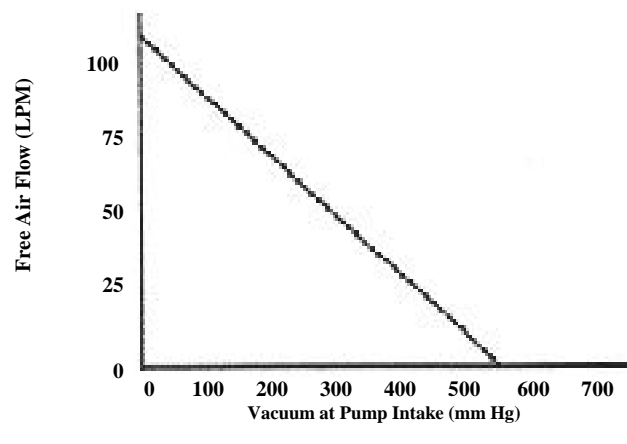
<u>FILTER HOLDER MODEL</u>	<u>CHARCOAL CARTRIDGE DIMENSIONS</u>	<u>PARTICULATE PAPER DIAMETER</u>
FJ-05P	F&J MODEL B	2" or 50 mm
FJ-21P	F&J MODEL C	2" or 50 mm
FJ-35P	F&J MODEL B	47 mm
FJ-46P	F&J MODEL C	47 mm
FJ-51P	F&J MODEL M	2" or 50 mm
FJ-53P	F&J MODEL M	47 mm

PUMP CURVE

Top line on curve is for 60-cycle performance
Bottom line on curve is for 50-cycle performance



CONSTANT AIR FLOW REGULATOR CURVE TYPICAL PUMP OPERATING FLOW RANGE



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