



## F&J SPECIALTY PRODUCTS, INC.

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*The Nucleus of Quality Air Monitoring Programs*

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# Low Volume Air Sampler Model LV2234E

### NOTABLE FEATURES:

- Constant air flow regulator adjustable by user
- WH-3 Environmental weatherhouse
- Powder coat painted aluminum enclosure with cooling fan
- Durable ¾ HP oil-less carbon vane pump designed for continuous use
- Internal intake and exhaust mufflers
- flowmeter, elapsed timer and vacuum gauge
- 220-240VAC, 50/60Hz; single phase
- Certified to UL, CSA and CE electrical safety standards by ETL



### GENERAL DESCRIPTION:

The Model LV2234E is a low volume air sampler consisting of a ¾ HP oil-less, carbon vane pump with a flowmeter, 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 into 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 removable base plate, which can be secured within the GFCI protected aluminum environmental weatherhouse, Model WH-3 having an enclosure rating of IPX3. An optional mechanical volume totalizer is available for the LV2234E Air Sampler.

The LV2234E Air Sampling System is designed for continuous outdoor operation. Please consult the product specification for the design temperature and the installation category.

The typical operating flow range is 1 to 6 CFM (30 – 170 LPM).

**REV:** 09 April 2018

# MODEL LV2234E LOW VOLUME AIR SAMPLER (220-240 VAC)

## SPECIFICATIONS:

**PUMP TYPE:** Oil-less, carbon vane ¾ HP; 1425 RPM@ 50 Hz

## MAXIMUM CAPACITY:

8 CFM (226 LPM) at 0" Hg Pressure drop

**ULTIMATE VACUUM:** 25" (635 mm) Hg at sea level

**VACUUM GAUGE:** 0-30" (0,7 – 762 mm) Hg

## POWER REQUIREMENTS:

220-240VAC, 50/60 Hz at 9 amperes; single phase

**FUSE PROTECTION:** 6 ¼ amperes slow blow

**ELECTRICAL CORD:** All-temperature, 3-wire, 14 gauge

## THERMAL OVERLOAD PROTECTION:

Furnished as an integral part of the motor

## CONSTANT AIRFLOW REGULATOR:

Aluminum construction with silicone diaphragm; adjustable from 1-6 CFM (30-170 LPM).

**ELAPSED TIME INDICATOR:** 0 – 9999,99 Hours or 99999,9 Minutes

## DIMENSIONS:

81L × 66A × 122 cm Alt (32"L × 26"W × 48¼"H w/legs)

**WEIGHT:** 61 kg (135 lbs.)

## AVAILABLE ROTOMETER SCALES:

<u>MODEL</u>	<u>RANGE</u>
RMB56CFM	1 – 6 CFM
RMB56LPM	30 – 170 LPM

**OPTIONS:** Mechanical Totalizer; Metric or English units

## COMBINATION FILTER HOLDER:

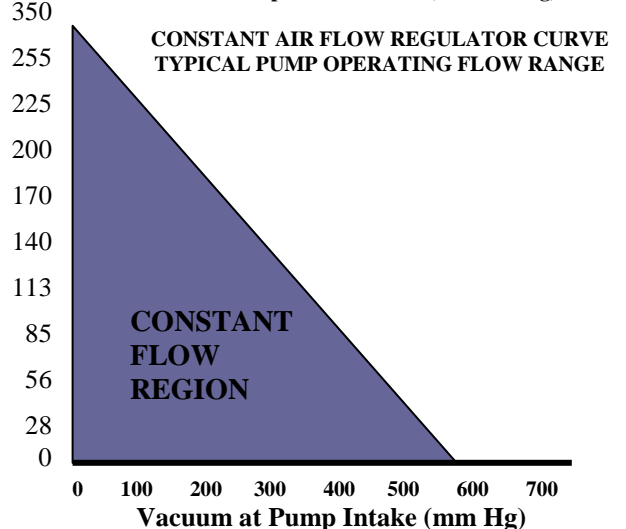
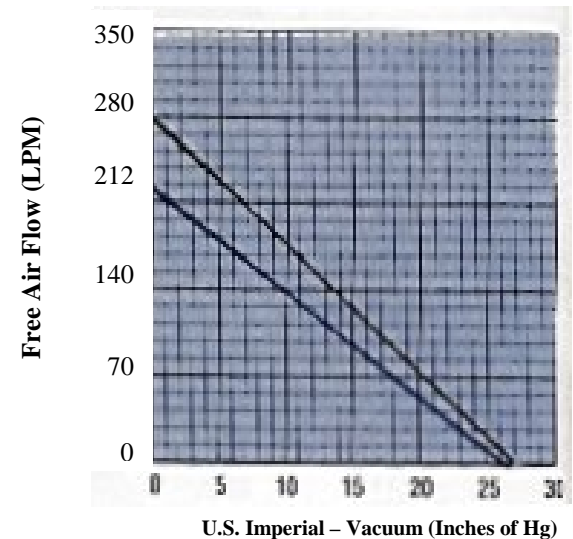
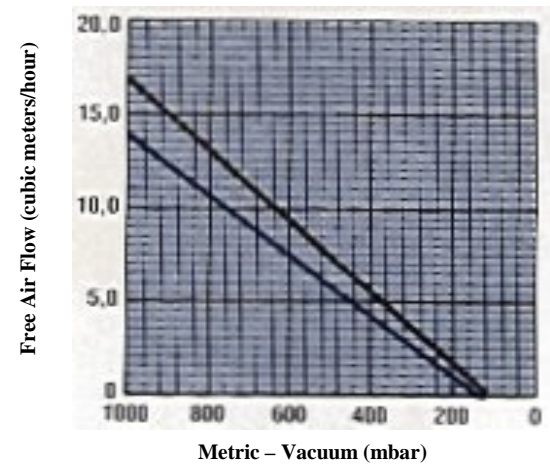
Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick-disconnect function.

## STANDARD COMBINATION FILTER HOLDERS AVAILABLE:

<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



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