

F&J SPECIALTY PRODUCTS, INC.

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The Nucleus of Quality Air Monitoring Programs

Low Volume Air Sampler F&J Model LV2234

NOTABLE FEATURES:

- Constant air flow regulator adjustable by user
- WH-3 Environmental weatherhouse
- Durable ¾ HP oil-less carbon vane pump designed for continuous use
- Internal intake and exhaust mufflers
- Flowmeter, elapsed time meter and vacuum gauge
- 100-120 VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

The Model LV2234 is a low volume air sampler consisting of a ¾ HP oil-less, carbon vane vacuum pump with a flowmeter, vacuum gauge and 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 LV2234 air sampler.

The LV2234 Air Sampling System is designed for continuous outdoor operation. Please consult the product specification for the design temperature range and the installation category.

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

REV: 09 April 2018

LV2234 Low Volume Air Sampler (100-120 VAC)

SPECIFICATIONS:

PUMP TYPE: Oil-less, carbon vane $\frac{3}{4}$ HP; 1725 RPM@ 60 Hz

MAXIMUM CAPACITY:

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

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

VACUUM GAUGE: 0 – 30" (0 – 762mm) Hg

POWER REQUIREMENTS:

100-120VAC; 50/60 Hz at 9 amperes; single phase

FUSE PROTECTION: 10 amperes slow blow fuse

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 silicon diaphragm; adjustable from 1-6 CFM (30-170 LPM).

ELAPSED TIME INDICATOR:

9999.99 Hours or 99999.9 Minutes

DIMENSIONS:

32"L x 26"W x 48 $\frac{1}{4}$ "H w/legs (81L x 66W x 122cm H)

WEIGHT: 135 lbs. (61 Kgs.)

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:

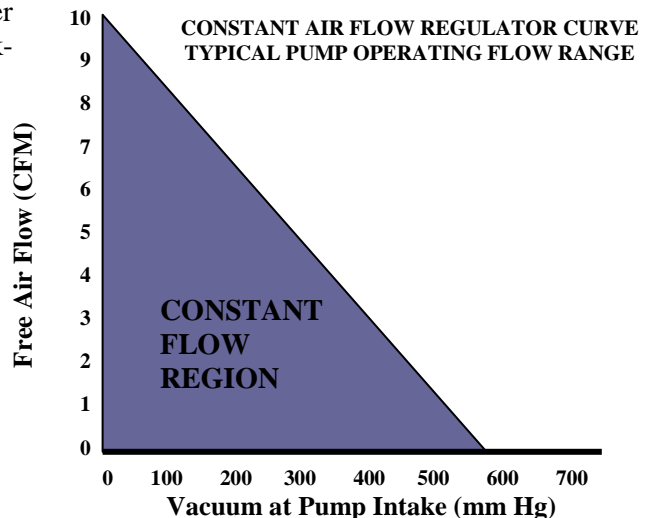
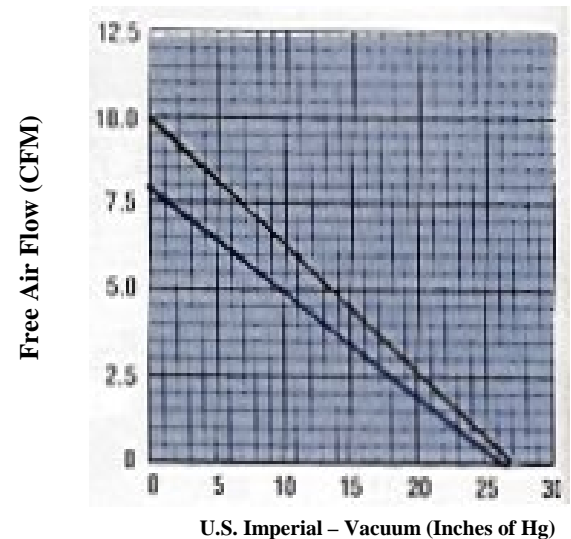
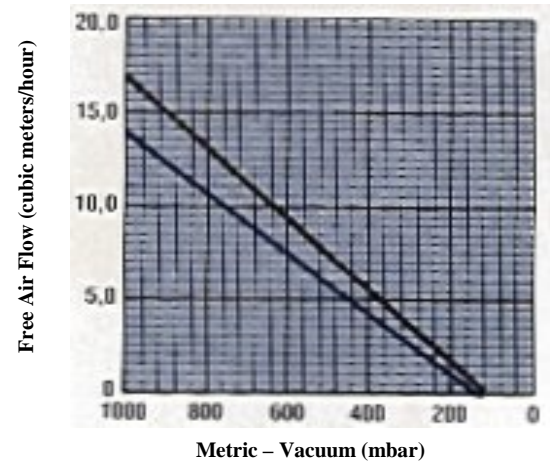
Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47mm, 2" or 50mm diameter particulate filter paper are available. All models have quick-disconnect function.

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 50mm
FJ-21P	F&J Model C	2" or 50mm
FJ-35P	F&J Model B	47mm
FJ-46P	F&J Model C	47mm
FJ-51P	F&J Model M	2" or 50mm
FJ-53P	F&J Model M	47mm

PUMP CURVE

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



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