



## F&J SPECIALTY PRODUCTS, INC.

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*The Nucleus of Quality Air Monitoring Programs*

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# LOW VOLUME AIR SAMPLER F&J MODEL LV-14M

### NOTABLE FEATURES:

- Constant air flow regulator
- Durable 1/4 HP oil-less carbon vane pump designed for continuous use
- Instrument control box conveniently located
- Internal intake and exhaust mufflers
- Adjustable sampling gooseneck 4' – 7' (122 – 213 cm)
- Rotometer, elapsed time meter and vacuum gauge
- Mobile cart with 8" hard rubber wheels
- 100 – 120VAC, 50/60Hz; single phase

### GENERAL DESCRIPTION:

Model LV-14M is a cart mounted low volume air sampler with an adjustable, aluminum sampling gooseneck. The adjustable gooseneck permits sampling at heights varying from 4' to 7' (122 cm - 213 cm) above floor level.

The LV-14M air sampler includes a 1/4 HP oil-less, carbon vane vacuum pump with 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 head drop at all times by permitting it to run cooler; thus extending its lifetime. The oil-less pump requires no lubrication to maintain optimal efficiency during its service life. The pump is mounted on a mobile cart with two rubber wheels to permit mobile transportation of the unit.

The typical operating flow range is 1 to 3.5 CFM (10 – 100 LPM).

**REV: 22 Feb. 2016**



# LV-14M Low Volume Air Sampler (100 – 120 VAC)

## SPECIFICATIONS:

**PUMP TYPE:** Oil-less, carbon vane 1/4 HP;  
1725 RPM @ 60Hz

**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 – 762mm) Hg

**POWER REQUIREMENTS:** 100 – 120VAC;  
50/60 Hz at 6 amperes; single phase

**ELECTRICAL CORD:** All temperature,  
3-wire, 16 gauge

### 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)

**DIMENSIONS:** 21" × 14" W × 84" H  
(50.8 × 26 × 213 cm)

**AVERAGE dB:** 65.0

**WEIGHT:** 67 lbs. (30.4 Kgs.)

**WHEELS:** 8", hard rubber

**SAMPLING HEIGHT:** 4' to 7' (122 – 213 cm)

### AVAILABLE ROTOMETERS SCALES:

<u>MODEL</u>	<u>RANGE</u>
R10100	10 – 100 LPM
R13	1 -3.5 CFM

### ELAPSED TIME INDICATOR:

Resettable Type: 9999.9 minutes or hours.

**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.

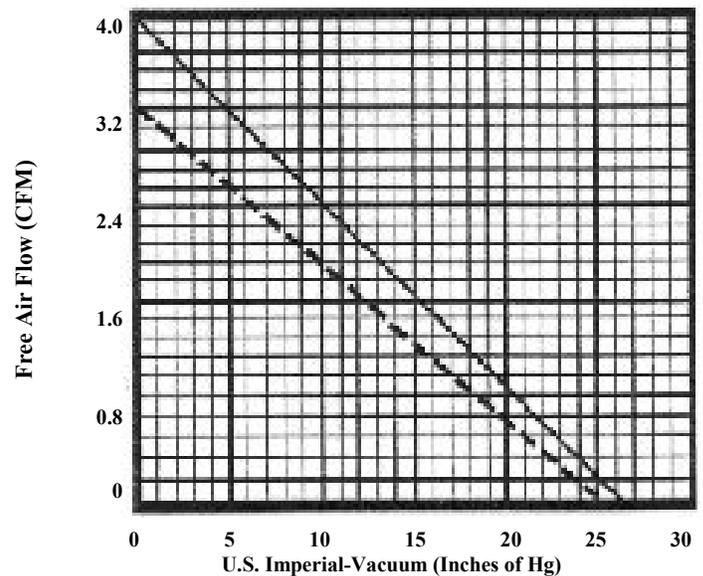
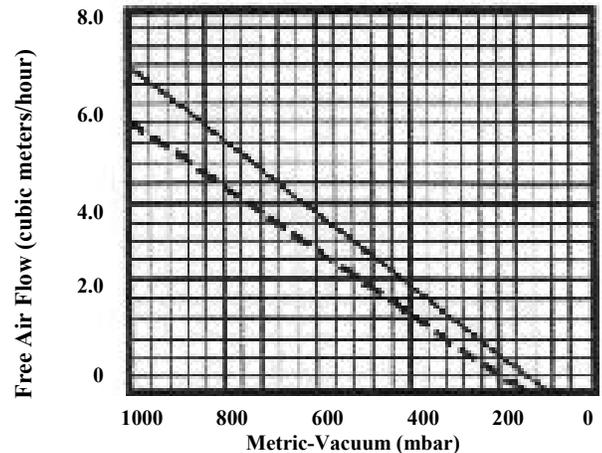
### STANDARD COMBINATION FILTER

#### HOLDERS AVAILABLE:

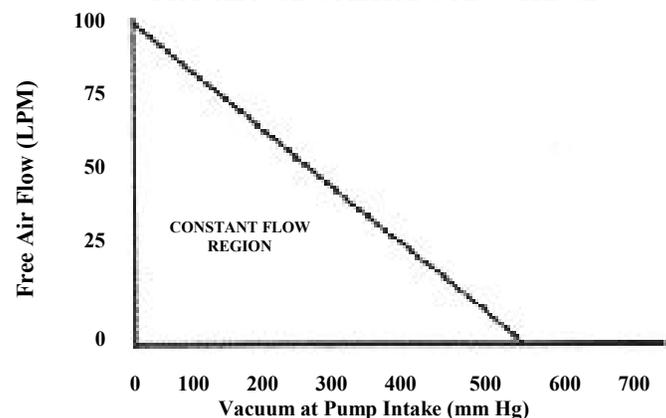
<u>FILTER HOLDER MODEL</u>	<u>CHARCOAL CARTRIDGE DIMENSIONS</u>	<u>PARTICULATE PAPER DIAMETER</u>
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

## PUMP CURVE

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



### CONSTANT AIR FLOW REGULATOR CURVE TYPICAL PUMP OPERATING FLOW RANGE



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