

# 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-14ME

### 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 122 – 213 cm (4' – 7')
- Rotometer, elapsed time meter and vacuum gauge
- Mobile cart with 8" hard rubber wheels
- 220 – 240VAC, 50/60Hz; single phase



### GENERAL DESCRIPTION:

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

The LV-14ME 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 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 LV-14ME Air Sampling System is designed for continuous indoor operation. Please consult the product specification for the design temperature and the installation category.

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

# LV-14ME Low Volume Air Sampler (220 – 240 VAC)

## SPECIFICATIONS:

- PUMP TYPE:** Oil-less, carbon vane 1/4 HP;  
50/60 Hz, 1 HP
- 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 – 762 mm) Hg
- POWER REQUIREMENTS:** 220 – 240VAC; 50/60 Hz  
at 3 amperes; single phase
- 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 to 3 CFM (10-100 LPM)
- DIMENSIONS:** 50,8L × 26W × 213 cm H  
(21" × 14"W × 84"H)
- WEIGHT:** 30,4 kg (67 lbs.)
- WHEELS:** 8", hard rubber
- SAMPLING HEIGHT:** 122 – 213cm (4' to 7')
- INSTALLATION CATEGORY:**  
Pollution Degree 2

## AVAILABLE ROTOMETERS SCALES:

<u>MODEL</u>	<u>RANGE</u>
R10100	10 – 100 LPM
R13	1 - 3 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:

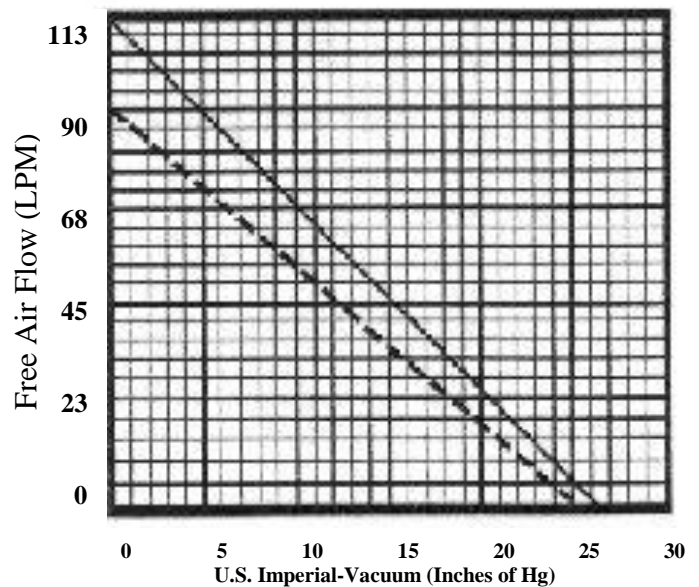
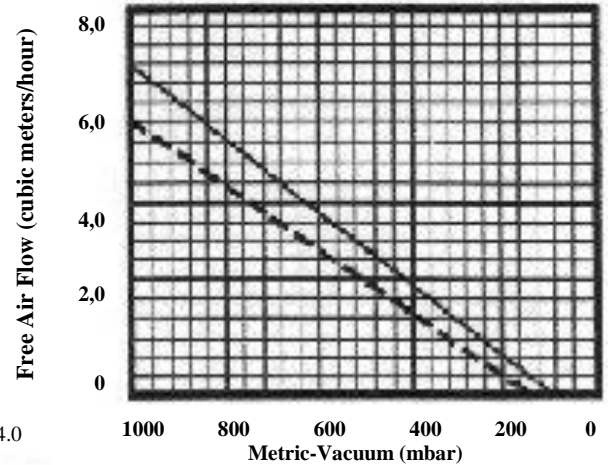
<u>FILTER HOLDER MODEL</u>	<u>CHARCOAL CARTRIDGE DIMENSIONS</u>	<u>PARTICULATE PAPER DIAMETER</u>
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

## PUMP CURVE

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

1425 RPM @ 50 Hz

1725 RPM @ 60 Hz



CONSTANT AIR FLOW REGULATOR CURVE  
TYPICAL PUMP OPERATING FLOW RANGE

