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The Nucleus of Quality Air Monitoring Programs

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

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



Shown with Optional Timer



GENERAL DESCRIPTION:

Model LV-1DE is a low volume air sampler consisting of a 1/4 H.P. oil-less, carbon vane vacuum pump with a flow meter, a 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 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 base with four rubber feet. A handle is provided on the chassis to facilitate its transportation. The LV-1DE is distinguished from the LV-1E air sampler in that the flow meter and vacuum gauge are mounted on a quick disconnect plastic manifold on top of the motor that facilitates maintenance operations.

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

LV-1DE Low Volume Air Sampler (220 - 230 VAC)

SPECIFICATIONS:

PUMP TYPE: Oil-less, carbon vane 1/4 HP; 1425 RPM @ 50 Hz

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 to 762 mm) Hg

POWER REQUIREMENTS: 220 – 240VAC; 50/60Hz at 3 amperes; single phase

FUSE PROTECTION: 6-1/4 Amperes

ELECTRICAL CORD: All temperature, 3 wire, 18 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)

HANDLE: Black Painted Steel

DIMENSIONS: 40,6L x 19,1W x 33,6 cm H (16"L x 6"W x 15 1/2"H)

WEIGHT: 16 kg (36 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:

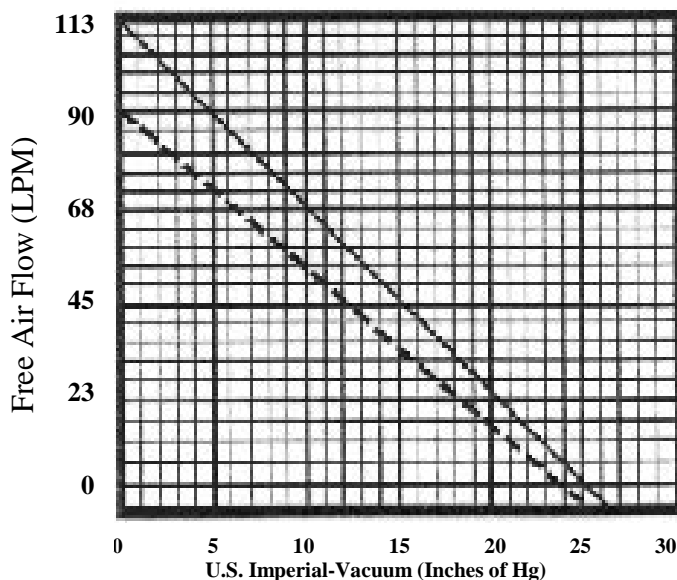
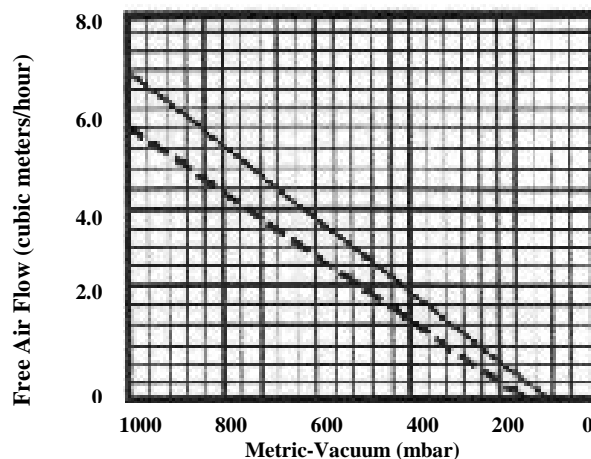
Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick disconnect function.

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

