



F&J SPECIALTY PRODUCTS, INC.
The Nucleus of Quality Air Monitoring Programs

LOW VOLUME AIR SAMPLER F&J MODEL LV-14MHTE

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
- Heavy-duty hand truck with 11" pneumatic tires
- 200 – 240VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model LV-14MHTE is a heavy-duty hand truck 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-14MHTE 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: 02 October 2019

LV-14MHTE Low Volume Air Sampler (200 – 240 VAC)

SPECIFICATIONS:

PUMP TYPE: Oil-less, carbon vane 1/4 HP;
50/60Hz, 1 PH

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: 200 – 240VAC;
50/60 Hz at 5 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 × 213cm)

WEIGHT: 67 lbs. (30.4 Kgs.)

WHEELS: 11", pneumatic

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

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

1425 RPM @ 50 Hz
1725 RPM @ 60 Hz

