

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

LOW VOLUME AIR SAMPLER F&J MODEL SRS-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 10.5" pneumatic tires
- Pressure gauge
- Needle valve
- GFCI Protection
- 100 – 120VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model SRS-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 SRS-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).

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SRS-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 3.5 CFM
(10-100 LPM)

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

WEIGHT: 67 lbs. (30.4 Kgs.)

WHEELS: 10.5", 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:

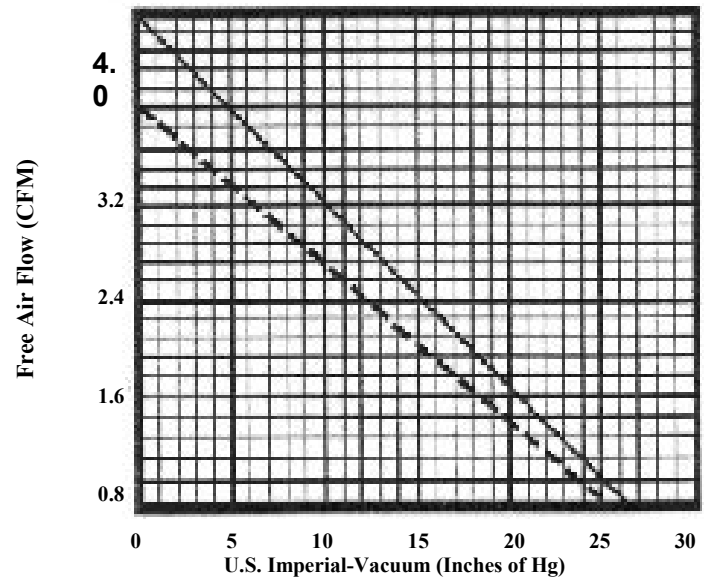
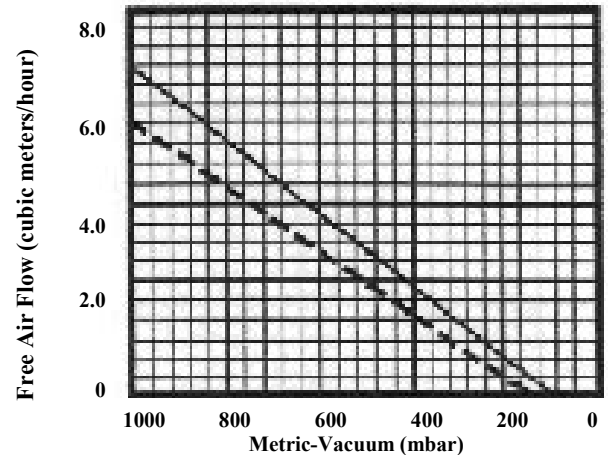
FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

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

