



# F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

## LOW VOLUME AIR SAMPLER F&J MODEL SRS-14MHT

### 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 for calibration verification
- GFCI Protection
- Card Mounted Filter Holder
- 100 – 120VAC, 50/60Hz; single phase



### GENERAL DESCRIPTION:

Model SRS-14MHT 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-14MHT includes the GFCI protection and the card mounted filter holder with a quick disconnect fitting.

The SRS-14MHT 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-14MHT Low Volume Air Sampler (100 – 120 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:** 100 – 120VAC;  
50/60 Hz at 10 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.

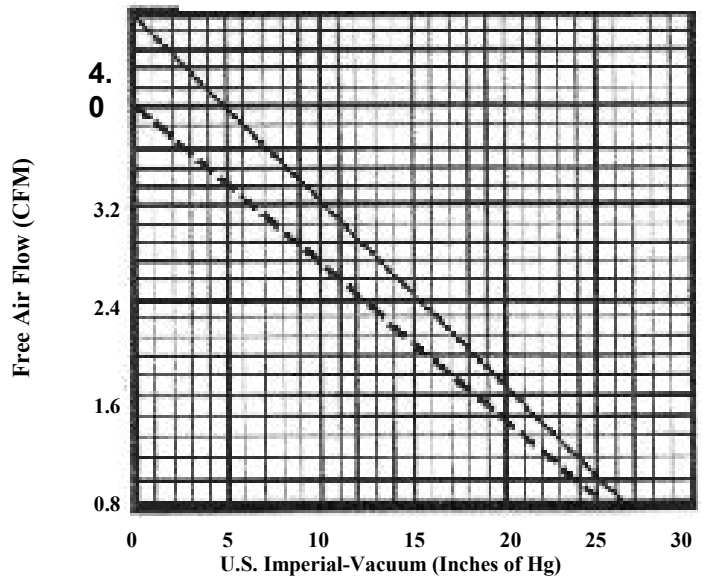
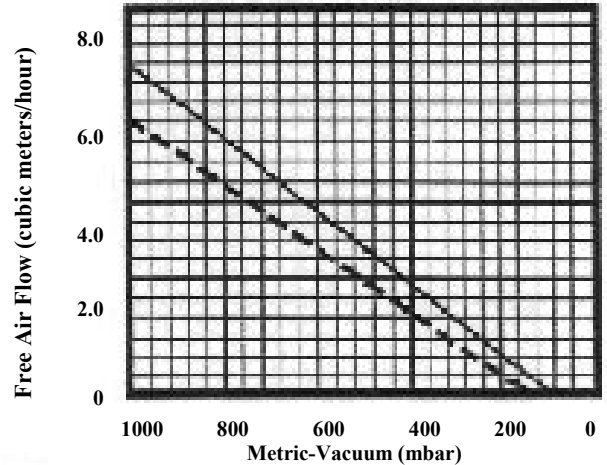
## STANDARD CARD MOUNTED FILTER HOLDER:



## 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

