F&J SPECIALTY PRODUCTS, INC.



The Nucleus of Quality Air Monitoring Programs

# MOBILE LOW VOLUME AIR SAMPLER w/DIGITAL FLOWMETER MODEL DF28BMHT



#### **NOTABLE FEATURES:**

- Display in English or metric units set at factory
- Choices of flow/volume units: SLPM SL
  - SCMH SCM SCFM SCF
- State of the Art microprocessor electronics
- Flowrate and volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available) Classical STP
  O°C, 1 Atm Normal T and P
  Modified Normal T and P
  Standard Ambient T and P
  25°C, 1 Atm
- Elapsed time meter
- Auto zero calibration feature of flow sensor
- Bright LED display
- Flow rate accuracy within  $\pm 4\%$  F.S.
- RS-232 Communication Port
- Reference or Ambient Flow Corrections are operator selectable
- ▶ 110 120 VAC, 50/60Hz; single phase

### **GENERAL DESCRIPTION:**

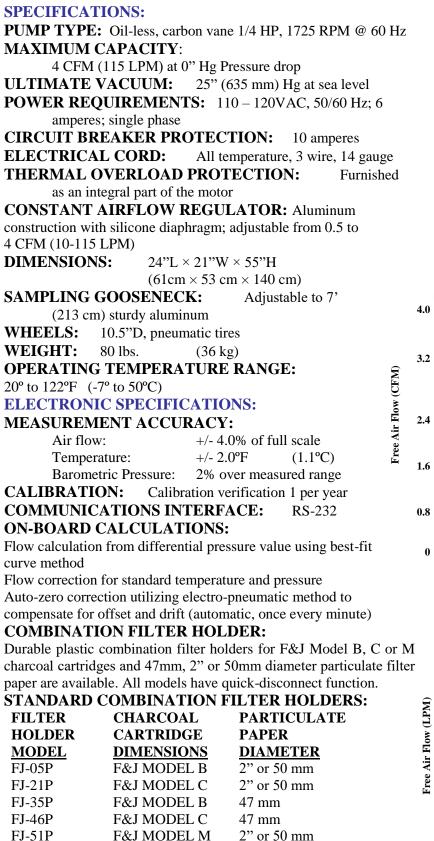
The Model DF28BMHT heavy duty hand truck mounted mobile low volume air sampler designed for outdoor use with digital flowmeter and an adjustable, aluminum sampling gooseneck. The adjustable gooseneck permits sampling at heights varying from 4' to 7' above floor level. Model DF28BMHT contains state of the art microprocessor electronics, which provides for corrected flow rate measurements, volume totalizations, and an RS232 communications port. It has a large bright LED display. The air sampler is contained in a powder coat painted environmental enclosure mounted ~ 4 inches above ground level.

The DF28BMHT Air Sampler includes an 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 pressure 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 rugged mobile hand truck with two 10.5" diameter pneumatic tires to facilitate mobile transportation of the unit.

The DF28BMHT is designed for continuous indoor or outdoor use. Please consult the product specifications for the design temperature range and the installation category.

The typical operating flow range is 0.5 to 4 CFM (14 to 115 LPM) depending upon resistance of air filters utilized.

## DF28BMHT DIGITAL LOW VOLUME AIR SAMPLER (110-120VAC) Mobile Unit with Adjustable Sampling Height



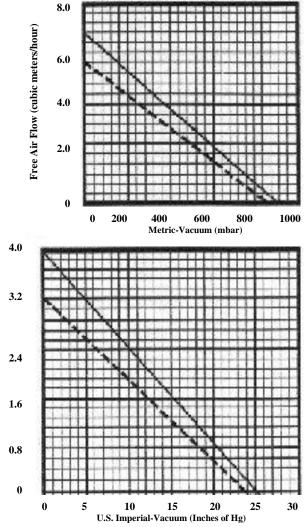
F&J MODEL M

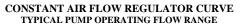
47 mm

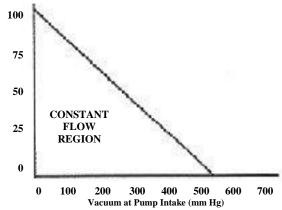
FJ-53P

#### **PUMP CURVE**

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







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