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The Nucleus of Quality Air Monitoring Programs

LOW VOLUME AIR SAMPLER F&J MODEL FJ28BE

NOTABLE FEATURES:

- Constant air flow regulator adjustable
- Easy access powder coat painted enclosure with exhaust fan
- Durable 1/4 HP oil-less carbon vane pump designed for continuous use
- Internal intake and exhaust mufflers
- Rotometer, elapsed timer indicator and vacuum gauge
- 220-240VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model FJ28BE is counter-top cabinet model, low-volume air sampler with a 1/4 HP oil-less carbon vane vacuum pump, and a constant air flow regulator for use where a near 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 head 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 FJ28BE unit may be used in enclosed areas or placed in a weather resistant aluminum cabinet for environmental sampling.

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

REV: 08 Dec 2011

MODEL FJ28BE Low Volume Air Sampler (220-240 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" Hg (635 mm Hg) at sea level
- VACUUM GAUGE:** 0 – 30" (0 – 762 mm) Hg
- POWER REQUIREMENTS:** 220 - 240VAC; 50/60 Hz at 3 amperes; single phase
- FUSE PROTECTION:** 6 ¼ Amperes
- ELECTRICAL CORD:** All temperature, 3-wire, 16 gauge
- THERMAL OVERLOAD PROTECTION:** Furnished as an integral part of the motor
- ELAPSED TIME INDICATOR:** Resettable type-0-9999.9 min. or hours
- CONSTANT AIR FLOW REGULATOR:** Aluminum construction with silicon diaphragm; adjustable from 1 to 3 CFM (10-100 LPM)
- DIMENSIONS:** 47L × 29,2W × 34,9 cm H (18 ½"L×12 ½"W×13 ¾"H)
- WEIGHT:** 19,5 kg (43 lbs.)
- INSTALLATION CATEGORY:** Pollution Degree 3
- ENCLOSURE RATING:** IPX3
- AVAILABLE ROTOMETER SCALES:**
- | MODEL | RANGE |
|--------|--------------|
| R10100 | 10 – 100 LPM |
| R13 | 1-3 CFM |

COUNTER-TOP CABINET FEATURES

- Two handles
- Exhaust fan; 100 CFM
- Easy-open maintenance door
- Removable top
- Multi-louvered sides

COMBINATION FILTER HOLDER:

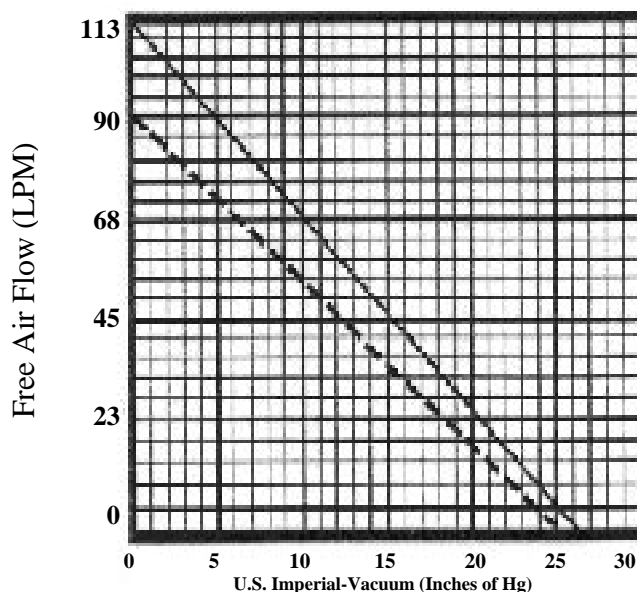
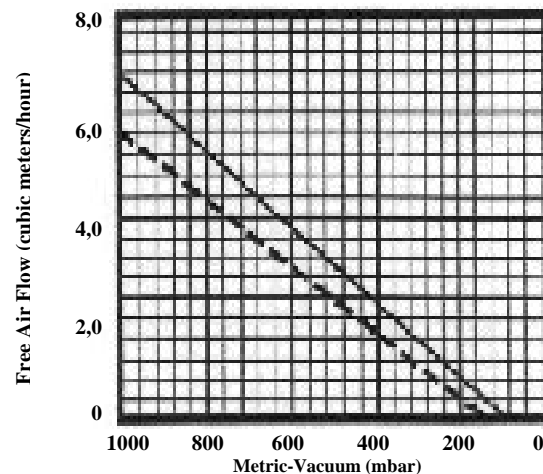
Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick-disconnect function.

STANDARD COMBINATION FILTER HOLDERS:

FILTER HOLDER	CHARCOAL CARTRIDGE	PARTICULATE PAPER
MODEL	DIMENSIONS	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



CONSTANT AIR FLOW REGULATOR CURVE
TYPICAL PUMP OPERATING FLOW RANGE

