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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: 30 April 2020

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)

AVERAGE dB: 67.0

WEIGHT: 19,5 kg (43 lbs.)

INSTALLATION CATEGORY: Pollution Degree 3

ENCLOSURE RATING: IPX3

AVAILABLE ROTOMETER SCALES:

<u>MODEL</u>	<u>RANGE</u>
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.

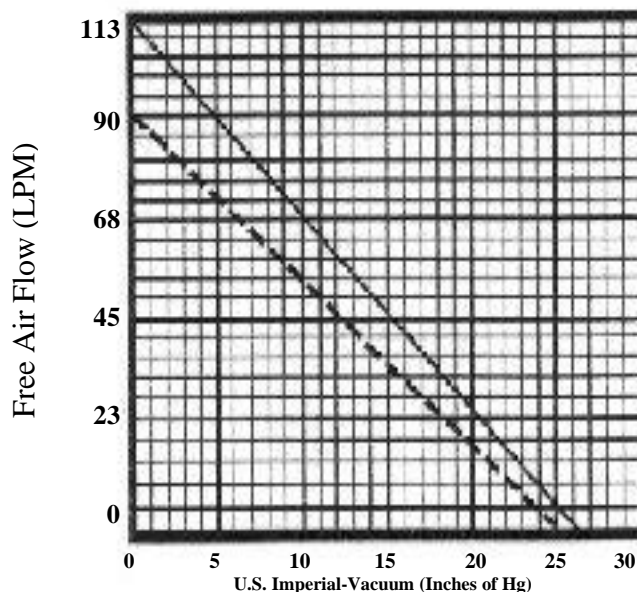
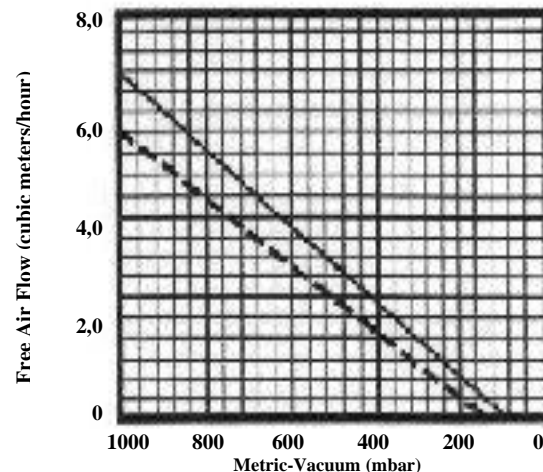
STANDARD COMBINATION FILTER HOLDERS:

<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



CONSTANT AIR FLOW REGULATOR CURVE
TYPICAL PUMP OPERATING FLOW RANGE

